

# D-NE920/NE920LS

## SERVICE MANUAL

Ver. 1.3 2005.11



Photo : BLUE

*US Model*  
*Canadian Model*  
*AEP Model*  
*UK Model*  
*D-NE920*  
*E Model*  
*D-NE920/NE920LS*  
*Australian Model*  
*D-NE920*  
*Chinese Model*  
*D-NE920LS*  
*Tourist Model*  
*D-NE920*

Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM-3325ERV2
Optical Pick-up Name	DAX-25EV

### SPECIFICATIONS

#### System

Compact disc digital audio system

#### Laser diode properties

Material: GaAlAs

Wavelength:  $\lambda = 770 - 800 \text{ nm}$

Emission duration: Continuous

Laser output: Less than  $44.6 \mu\text{W}$

(This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

#### D-A conversion

1-bit quartz time-axis control

#### Frequency response

20 - 20 000 Hz  $\pm 2 \text{ dB}$  (measured by JEITA)

#### Output (at 3 V input level)

Line output (stereo minijack)

Output level 0.7 V rms at 47 k $\Omega$

Recommended load impedance over 10 k $\Omega$

#### Headphones (stereo minijack)

Approx. 5 mW + Approx. 5 mW at 16 k $\Omega$

(Approx. 1.5 mW + Approx. 1.5 mW at 16 k $\Omega$ )\*

\*For the customers in Europe

#### Optical digital output (optical output connector)

Output level: -21 - -15 dBm

Wavelength: 630 - 690 nm at peak level

#### Power requirements

- Sony NH-14WM rechargeable battery: 1.2 V DC  $\times$  1
- LR6 (size AA) battery: 1.5 V DC  $\times$  1
- AC power adaptor (DC IN 3 V jack)
- Rated current: 1 A

#### Operating temperature

5°C - 35°C (41°F - 95°F)

#### Dimensions (w/h/d) (excluding projecting parts and controls)

Approx. 127  $\times$  20.6  $\times$  136.4 mm (5  $\times$   $\frac{13}{16}$   $\times$  5  $\frac{3}{8}$  in.)

#### Mass (excluding accessories)

Approx. 160 g (5.7 oz.)

#### Supplied accessories

- AC power adaptor
- External battery case with cover
- Battery carrying case
- Earphones
- CD-ROM (SonicStage)
- Operating instructions
- Installation/Operating Guide
- AC plug adaptor (Supplied with tourist model)
- Charging stand
- Rechargeable battery
- Carrying pouch
- Remote control

US and foreign patents licensed from Dolby Laboratories.

Design and specifications are subject to change without notice.

## PORTABLE CD PLAYER

# SONY®

## CAUTION

- INVISIBLE LASER RADIATION WHEN OPEN
- DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS
- CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN
- DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

## CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

## Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

## Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

## On AC power adaptor

- Use only the AC power adaptor supplied. If your CD player is not supplied with the one, use the AC-E30HG AC power adaptor. Do not use any other AC power adaptor. It may cause a malfunction.

### Polarity of the plug



- Do not touch the AC power adaptor with wet hands.
- Connect the AC power adaptor to an easily accessible AC outlet. Should you notice an abnormality in the AC power adaptor, disconnect it from the AC outlet immediately.

## SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

## UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

## : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity  
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder  
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

- To clean the terminals

If the terminals on the charging stand become dirty, the battery may not be charged properly.

Clean the terminals with a cotton swab or a dry cloth periodically as illustrated below.

Terminals



## ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

## You can play discs on this CD player.

Audio CDs:

### CD-DA format CDs

CD-DA (Compact Disc Digital Audio) is a recording standard used for Audio CDs.

ATrac CDs:

### CD-R/CD-RW on which audio data compressed in the ATrac3plus format has been recorded by using SonicStage\*

ATrac3plus (Adaptive Transform Acoustic Coding3plus) is audio compression technology that satisfies the demand for high sound quality and high compression rates. ATrac3plus can compress audio files to about 1/20 of their original size at 64 kbps.

Bit rates and sampling frequencies this CD player can play are:

	Bit rates	Sampling frequencies
ATrac3	66/105/132 kbps	44.1 kHz
ATrac3plus	48/64/256 kbps	44.1 kHz

Up to 62 characters can be displayed on this CD player.

MP3 CDs:

### CD-R/CD-RW on which audio data compressed in the MP3 format has been recorded by using a software other than SonicStage\*

Bit rates and sampling frequencies this CD player can play are shown below. Variable Bit Rate (VBR) files can also be played.

	Bit rates	Sampling frequencies
MPEG-1 Layer3	32 - 320 kbps	32/44.1/48 kHz
MPEG-2 Layer3	8 - 160 kbps	16/22.05/23 kHz
MPEG-2.5 Layer3	8 - 160 kbps	8/11.025/12 kHz

This CD player conforms to Version 1.0/1.1/2.2/2.3/2.4 of the ID3 tag format. ID3 tag is a format for adding certain information (track name, album name, artist name, etc.) to MP3 files. Up to 64 characters of ID3 tag information can be displayed on this CD player.

CD-Extra and Mix-Mode CDs:

### CD-R/CD-RW on which CD-DA format data and CD-ROM format data are recorded together.\*

If you cannot play your CD, change the "CD-EXTRA" setting in the OPTION menu. Then you may play your CD.

An ATrac CD on which audio data compressed in the MP3 format has been recorded using software other than SonicStage can also be played.

With SonicStage, you cannot create a CD on which mixed format audio data is recorded.

\* Only ISO 9660 Level 1/2 and Joliet extension format discs can be played.

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

## TABLE OF CONTENTS

<b>1. SERVICING NOTES</b>	4
<b>2. GENERAL</b>	5
<b>3. DISASSEMBLY</b>	
3-1. Disassembly Flow	7
3-2. Upper Lid Sub Assy	8
3-3. SWITCH Board	9
3-4. Cabi Mid Sub Assy	10
3-5. EGH Board, CD Mechanism Deck (CDM-3325ERV2)	11
3-6. JACK Board, JACK SUB Board	12
3-7. Turn Table Motor Assy (M901), Sled Motor Assy (M902), Optical Pick-up (DAX-25EV)	12
<b>4. ELECTRICAL CHECKING</b>	13
<b>5. DIAGRAMS</b>	
5-1. Block Diagram	15
5-2. Printed Wiring Board – EGH Board (Side A) –	16
5-3. Printed Wiring Board – EGH Board (Side B) –	17
5-4. Schematic Diagram – EGH Board (1/3) –	18
5-5. Schematic Diagram – EGH Board (2/3) –	19
5-6. Schematic Diagram – EGH Board (3/3) –	20
5-7. Printed Wiring Board – JACK Board (Side A), JACK SUB Board –	21
5-8. Printed Wiring Board – JACK Board (Side B) –	22
5-9. Schematic Diagram – JACK Board, JACK SUB Board –	23
5-10. Printed Wiring Board – SWITCH Board –	24
5-11. Schematic Diagram – SWITCH Board –	25
<b>6. EXPLODED VIEWS</b>	
6-1. Overall Assy	31
6-2. Cabinet (Lower) Section	32
6-3. CD Mechanism Section (CDM-3325ERV2)	33
<b>7. ELECTRICAL PARTS LIST</b>	34

## SECTION 1 SERVICING NOTES

### NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

### NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.


### LASER DIODE AND FOCUS SEARCH OPERATION CHECK

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper lid is closed while turning ON the S501. (push switch type)

The following checking method for the laser diode is operable.

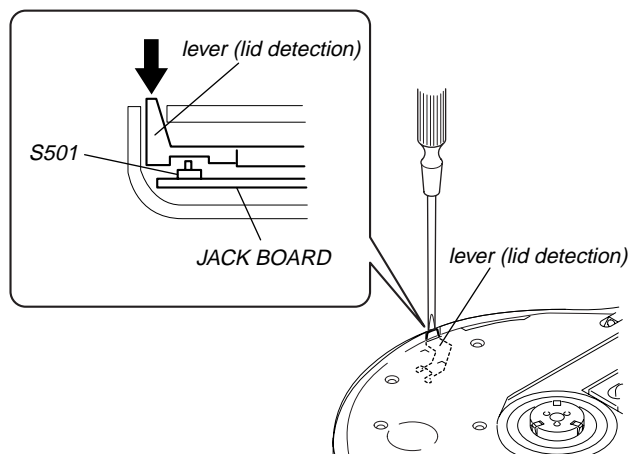
#### • Method:

**Emission of the laser diode is visually checked.**

1. Open the upper lid.
2. With a disc not set, turn on the S501 with a screwdriver having a thin tip as shown in Fig.1.
3. Press the  button.
4. Observing the objective lens, check that the laser diode emits light.

When the laser diode does not emit light, automatic power control circuit or optical pickup is faulty.

In this operation, the objective lens will move up and down 4 times along with inward motion for the focus search.



**Fig. 1 Method to push the S501**

### NOTES ON HANDLING OF PATCH

The handling of PATCH is necessary when a mounted EGH board is exchanged or when EEPROM(IC602) on an EGH board is exchanged.

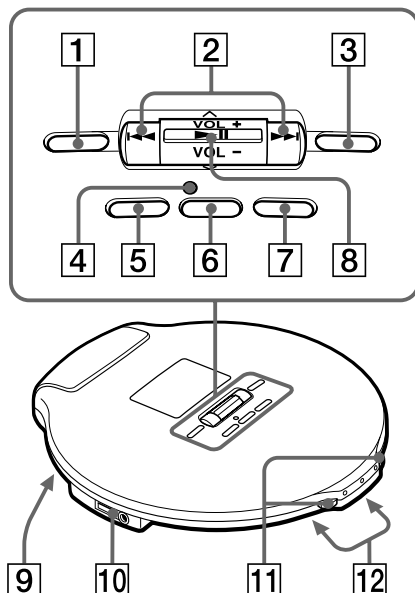
Please confirm in each service front office about the information on the handling of PATCH.

## SECTION 2 GENERAL

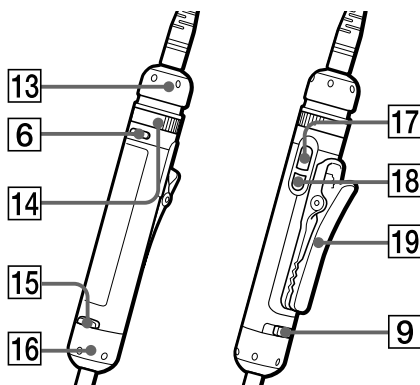
This section is extracted  
from instruction manual.

### Guide to Parts and Controls

#### CD player



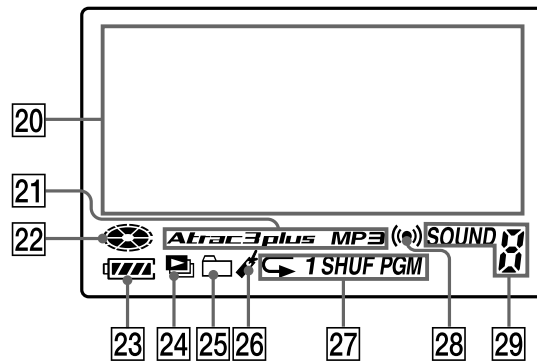
#### Remote



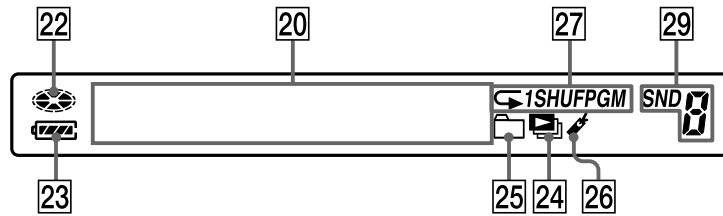
- 1 [ ] (group) – button (☞ page 17-19)
- 2 ◀◀/▶▶ buttons (☞ page 17, 22, 26, 27)
- 3 [ ] (group) + button (☞ page 17, 18)
- 4 OPR (Operation) lamp (☞ page 11, 12, 16, 18)
- 5 DSPL (Display)/MENU button (☞ page 21, 22, 24, 26)
- 6 SEARCH button (☞ page 18, 19)
- 7 ■ (stop)/CHG button (☞ page 12, 17, 25, 27, 28, 30)
- 8 Jog lever  
VOL (Volume) +/- (☞ page 16)  
Λ/V (☞ page 18, 19, 22, 24-27)  
▶|| (play/pause)(☞ page 16-19, 22, 24-27)
- 9 HOLD switch (on the back of the CD player) (☞ page 18)
- 10 ⌚ (headphones)/LINE OUT (OPTICAL) jack (☞ page 16, 33)
- 11 OPEN switch (☞ page 11, 16)
- 12 Terminals for the charging stand/external battery case (☞ page 11, 14, 15)
- 13 Operation dial (☞ page 17, 19, 24-27, 29)
- 14 VOL (Volume) +/- control (☞ page 16, 19, 24)
- 15 Function button (☞ page 20, 22, 25-27)
- 16 Function dial (☞ page 20, 22, 25-27)
- 17 ▶|| (play/pause)\* button (☞ page 16, 17, 19, 22, 24-27)
- 18 ■ (stop) button (☞ page 17, 25, 28, 30)
- 19 Clip (☞ page 8)

\* This button has a tactile dot.

## CD player display



## Remote display

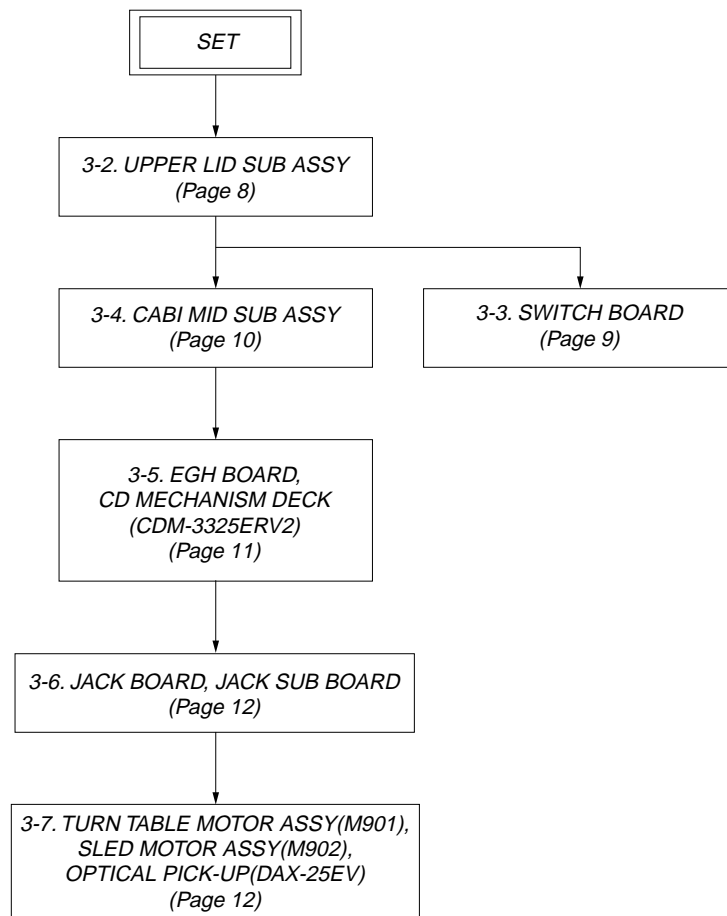


- 20 Character information display (page 20, 21)
- 21 Atrac3plus/MP3 indicator (page 5)
- 22 Disc indicator (page 16)
- 23 Battery indicator (page 11, 14)
- 24 Play list indicator (page 23, 25)
- 25 Group indicator (page 23, 24)
- 26 Bookmark indicator (page 23, 24)
- 27 Play mode indicator (page 23, 25)
- 28 Timer indicator (page 31)
- 29 Sound indicator (page 27)

## SECTION 3 DISASSEMBLY

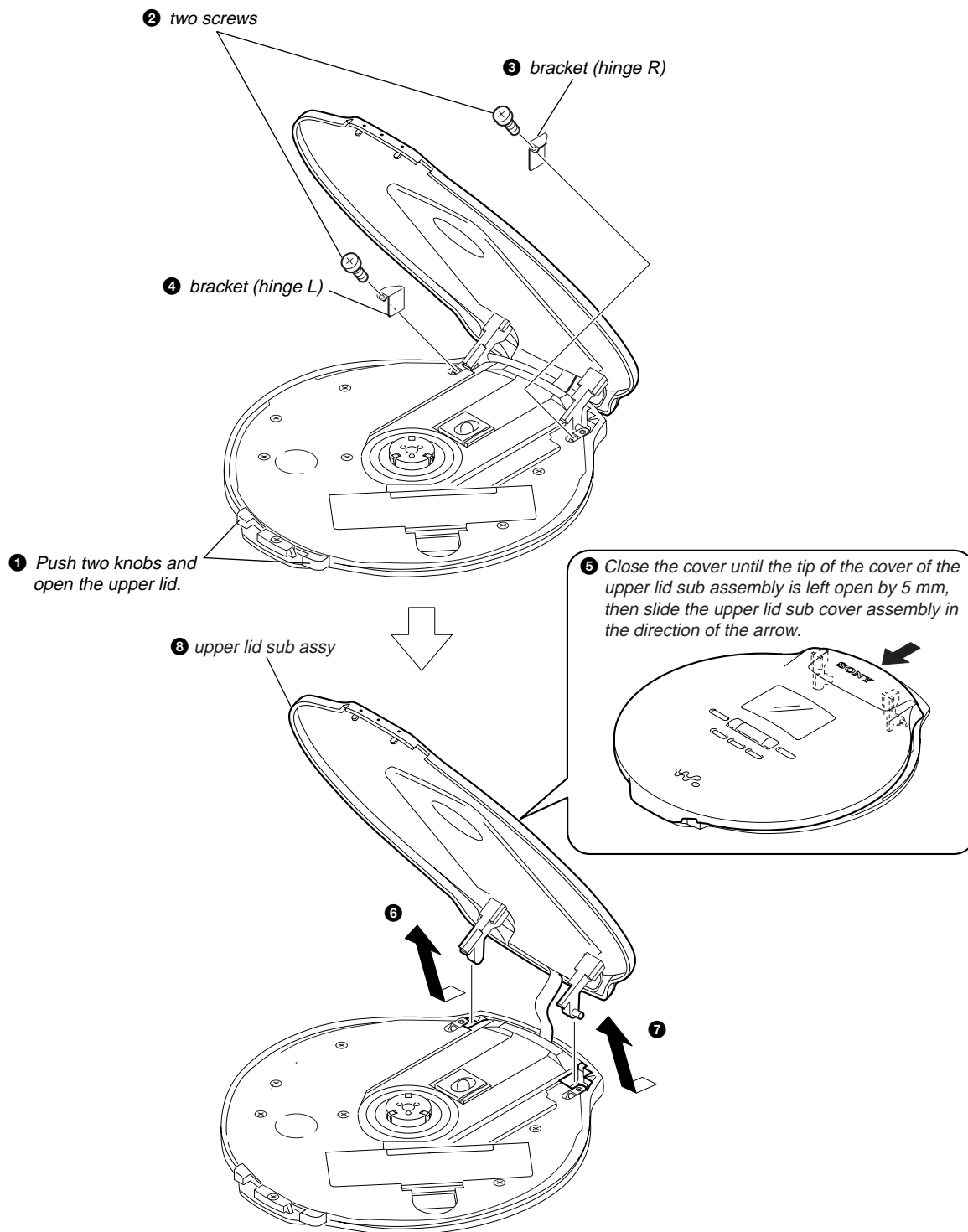
**Note:** Disassemble the unit in the order as shown below.

### 3-1. DISASSEMBLY FLOW

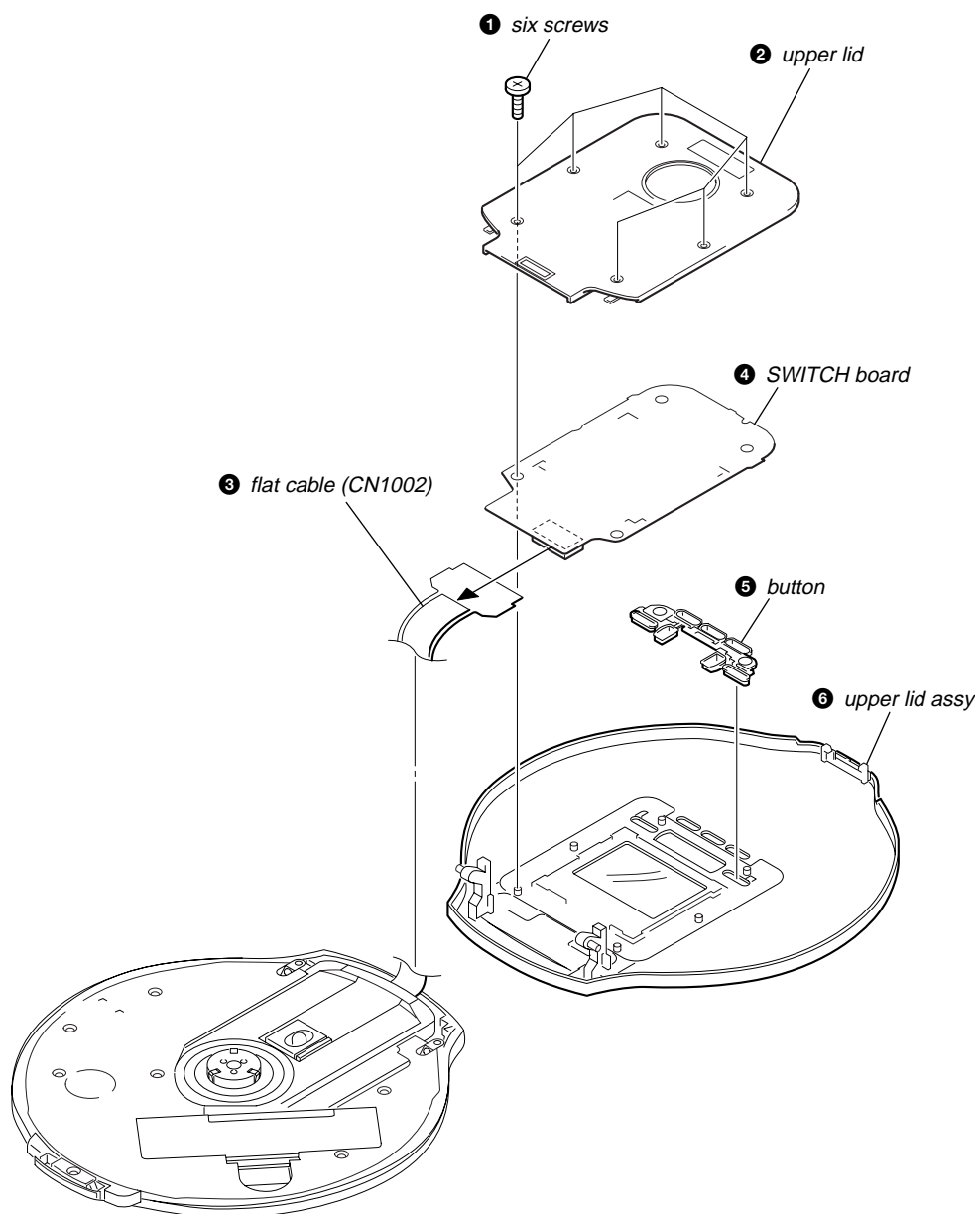


**Note:** Follow the disassembly procedure in the numerical order given.

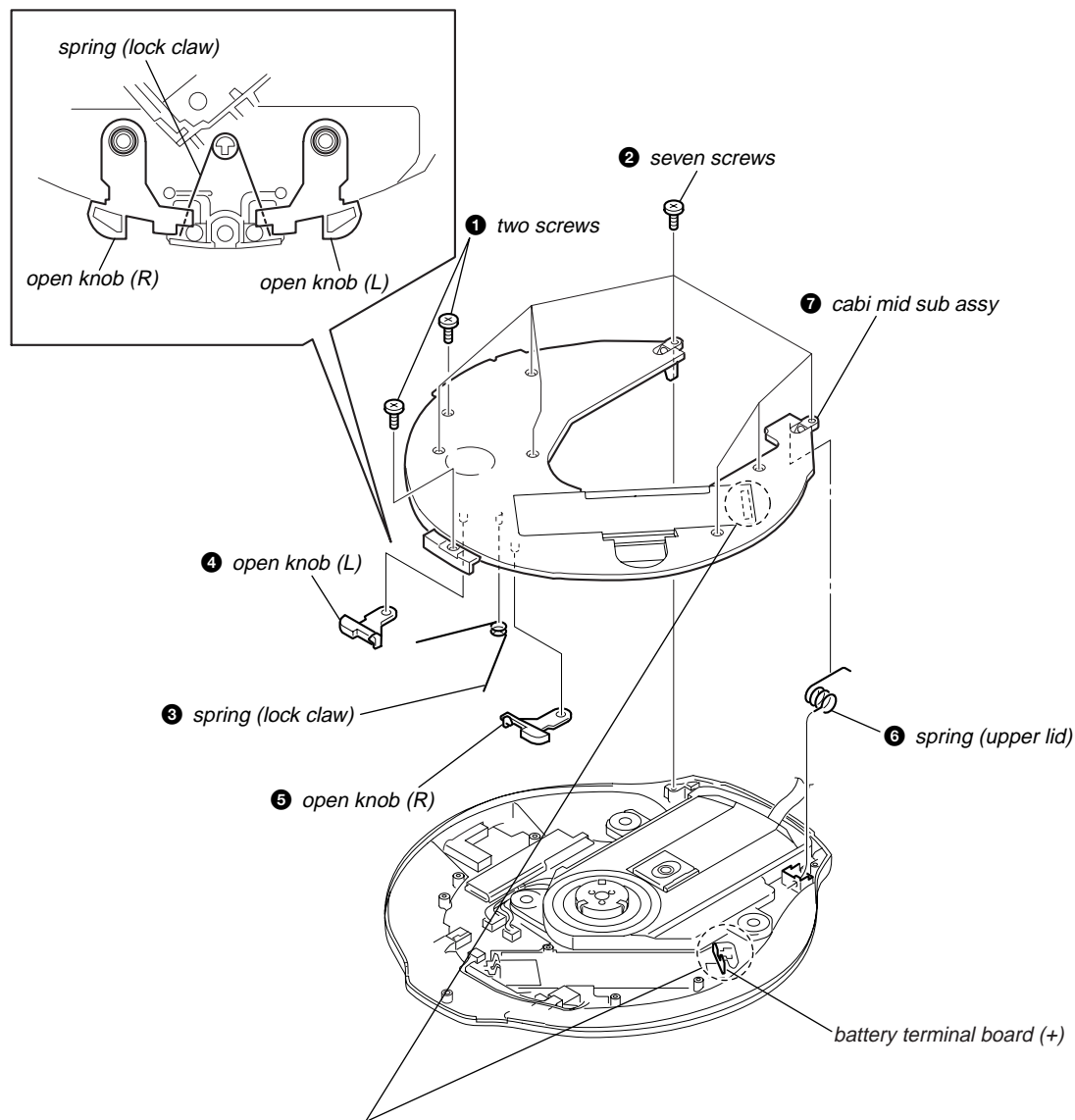
## 3-2. UPPER LID SUB ASSY



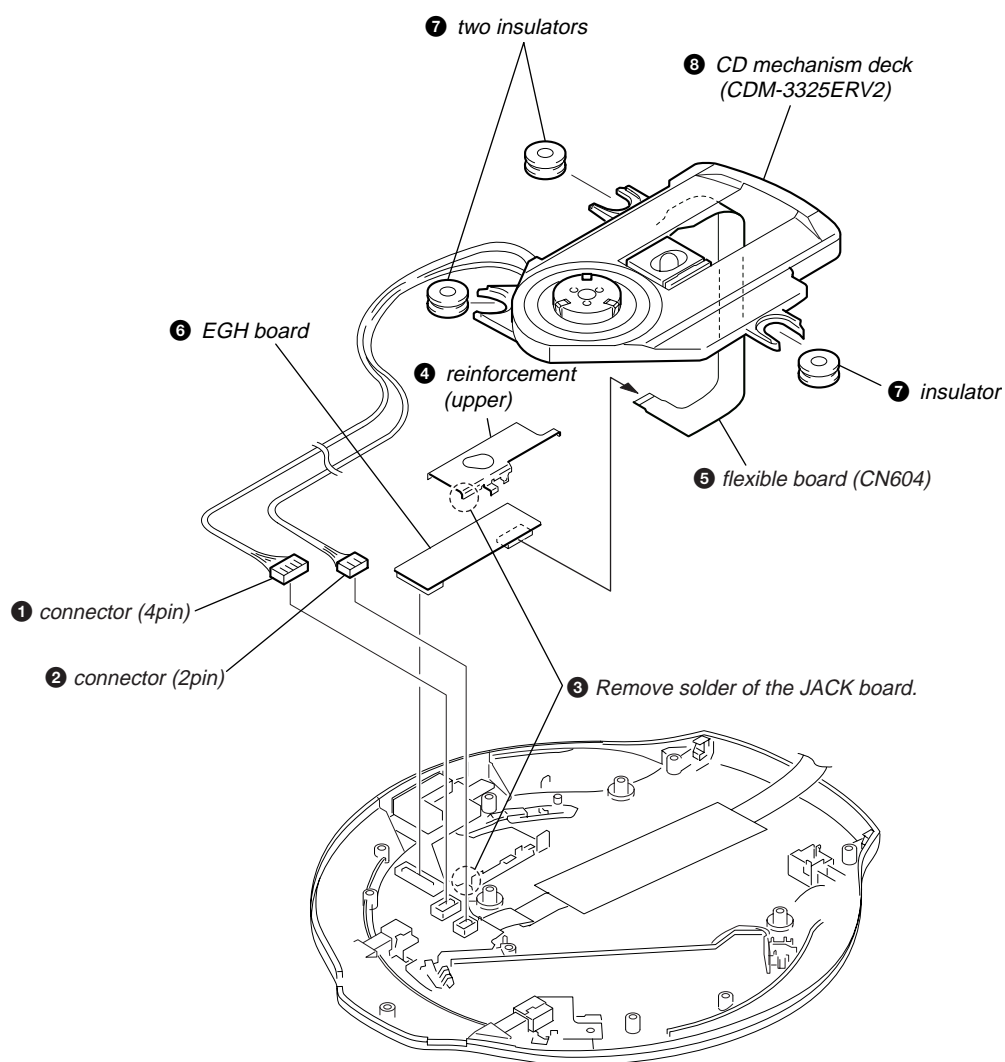
### 3-3. SWITCH BOARD



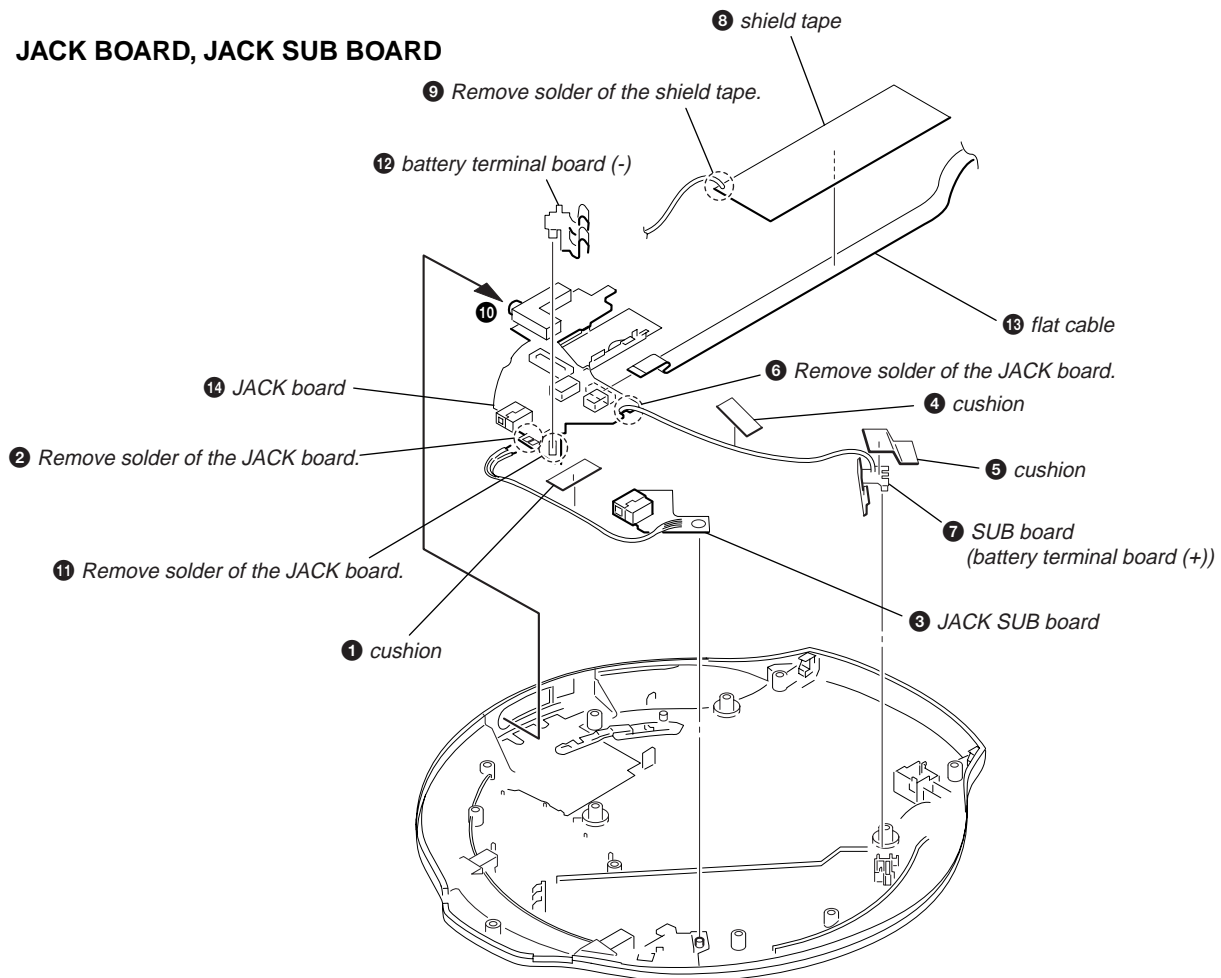
## 3-4. CABI MID SUB ASSY



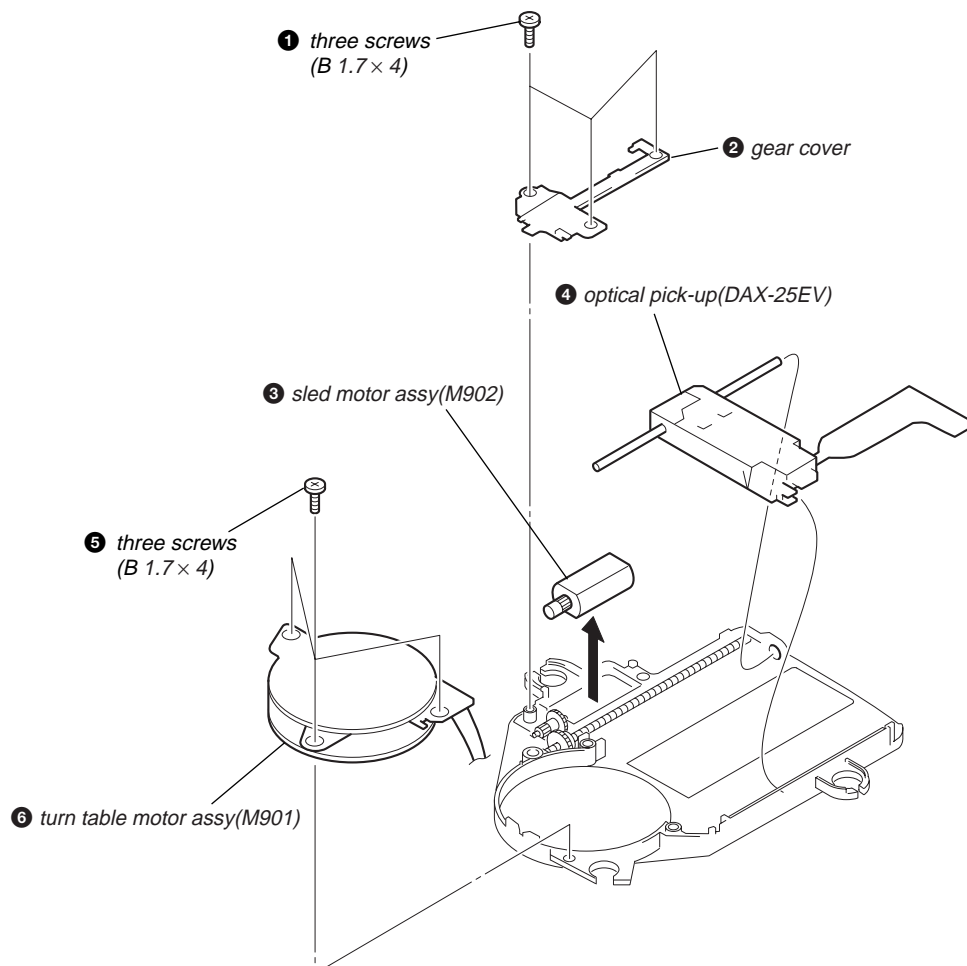
*Note: It is recommended to visually check that the battery terminal board (+) is installed in the specified position after assembling the cabi mid sub assy because, in some cases, the battery terminal board (+) cannot be housed when assembling the cabi mid sub assy.*

**3-5. EGH BOARD, CD MECHANISM DECK (CDM-3325ERV2)**

## 3-6. JACK BOARD, JACK SUB BOARD



## 3-7. TURN TABLE MOTOR ASSY (M901), SLED MOTOR ASSY (M902), OPTICAL PICK-UP (DAX-25EV)



## SECTION 4 ELECTRICAL CHECKING

The CD section adjustments are done automatically in this set.  
In case of operation check, confirm that RF level.

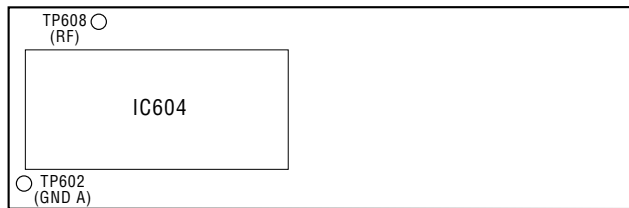
### Precautions for Check

1. Perform check in the order given.
2. Use YEDS-18 disc (Part No.: 3-702-101-01) unless otherwise indicated.
3. Power supply voltage requirement : DC1.5V in battery terminals.

VOLUME button : Minimum  
HOLD switch : OFF

### Checking Location:

#### [EGH BOARD] (SIDE B)

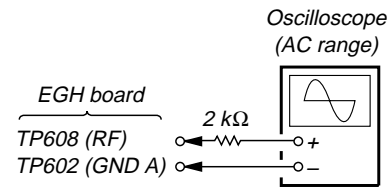


### RF Level Check

#### Condition:

- Hold the set in horizontal state.

#### Connection:

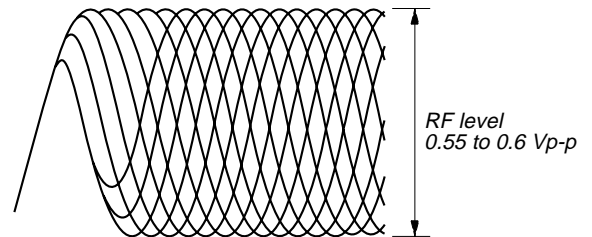


#### Procedure:

1. Connect the oscilloscope to the test points TP608 (RF) and TP602 (GND A) on the EGH board.
2. Set a disc. (YEDS-18)
3. Press the **▶||** button.
4. Check the oscilloscope waveform is as shown below.  
A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.

#### RF Signal reference Waveform (Eye Pattern)

VOLT/DIV : 100 mV (With the 10:1 probe in use)  
TIME/DIV : 500 ns



To watch the eye pattern, set the oscilloscope to AC range and increase the vertical sensitivity of the oscilloscope for easy watching.

5. Stop revolving of the disc motor by pressing the **■** button.

SECTION 5  
DIAGRAMS

NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.

Note on Printed Wiring Boards.

- — : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Pattern from the side which enables seeing.  
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side:	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side:	Parts on the parts face side seen from the parts face are indicated.

- These boards are multi-layer printed board. However, the patterns of intermediate-layer have not been included in the diagram.

Note on Schematic Diagrams.

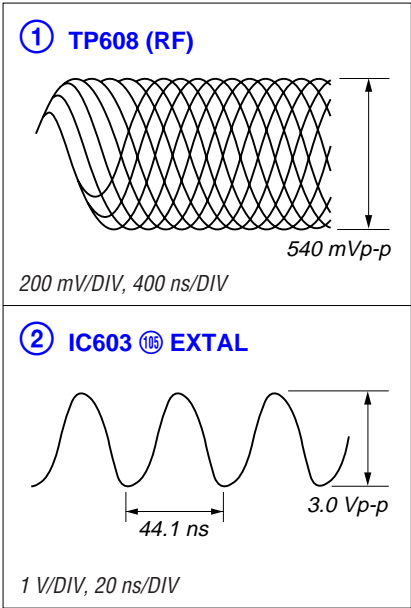
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}W$  or less unless otherwise specified.
- $\Delta$  : internal tolerance.
- : panel designation.

<b>Note:</b> The components identified by mark $\Delta$ or dotted line with mark $\Delta$ are critical for safety. Replace only with part number specified.	<b>Note:</b> Les composants identifiés par une marque $\Delta$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	---

- : B+ Line.
- Total current is measured with CD installed.
- Power voltage is dc 1.5 V and fed with regulated dc power supply from battery terminals.
- Voltages and waveforms are red with respect to ground in playback mode.  
no mark : CD PLAY  
\* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ).  
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.  
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.  
⇒ : CD  
⇒ : DIGITAL OUT
- Abbreviation  
CH : Chinese model  
EE : East European model  
JE : Tourist model  
KR : Korean model

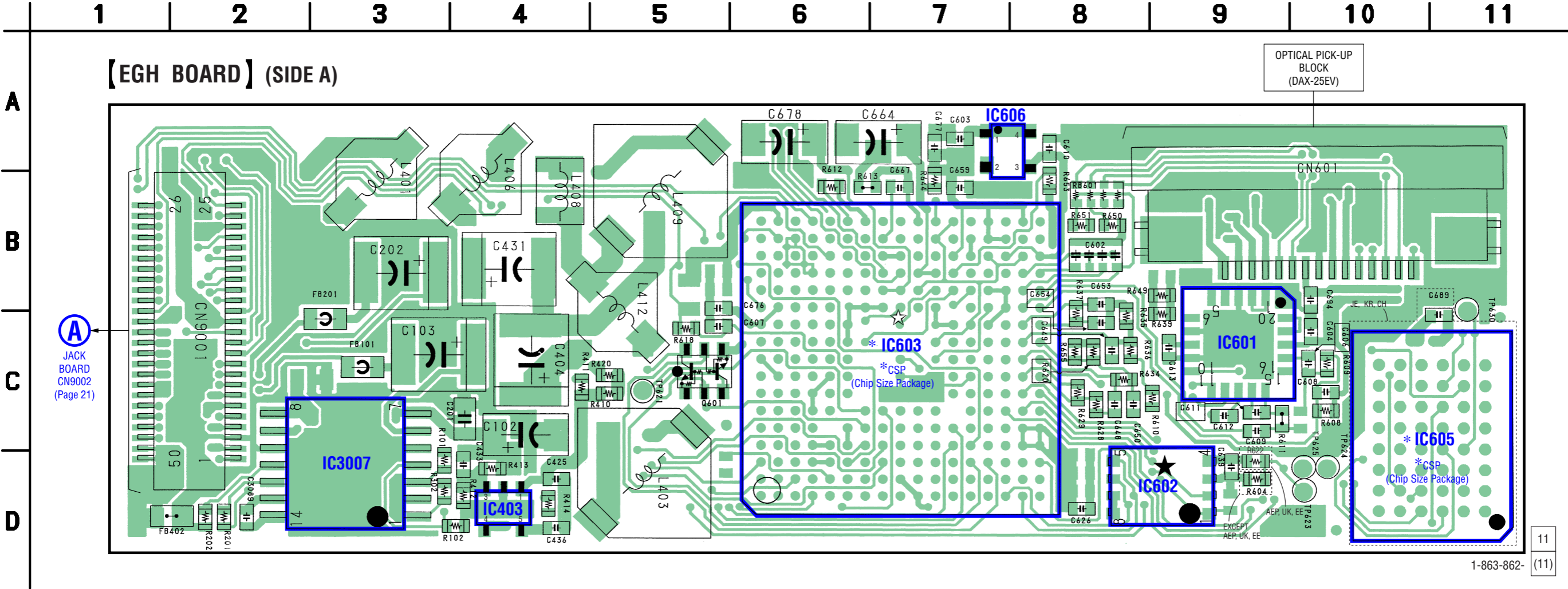
Waveforms

EGH Board



## 15

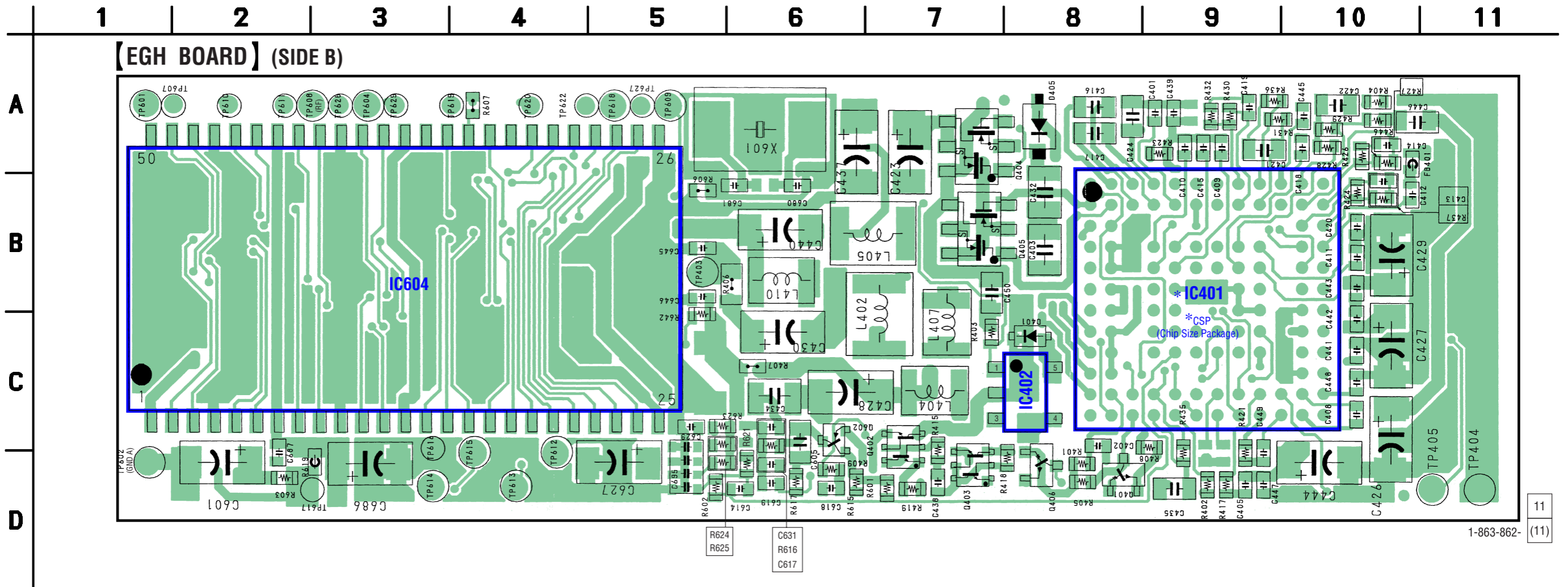




• Semiconductor Location

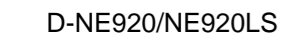
Ref. No.	Location
IC403	D-4
IC601	C-9
IC602	D-8
IC603	C-7
IC605	C-10
IC606	A-7
IC3007	D-3
Q601	C-5

5-3. PRINTED WIRING BOARD – EGH BOARD (SIDE B) –  :Uses unleaded solder.



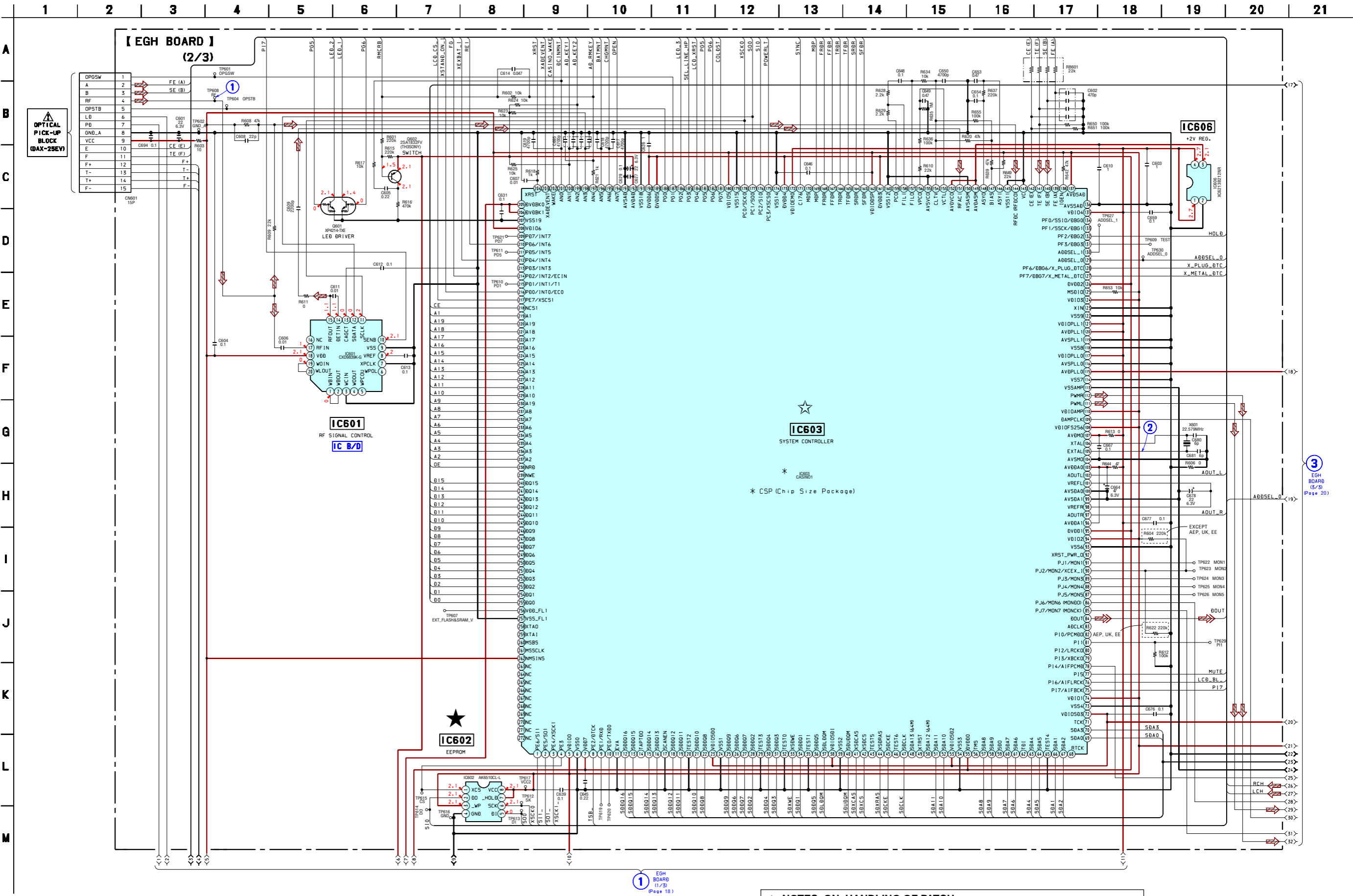
• Semiconductor Location

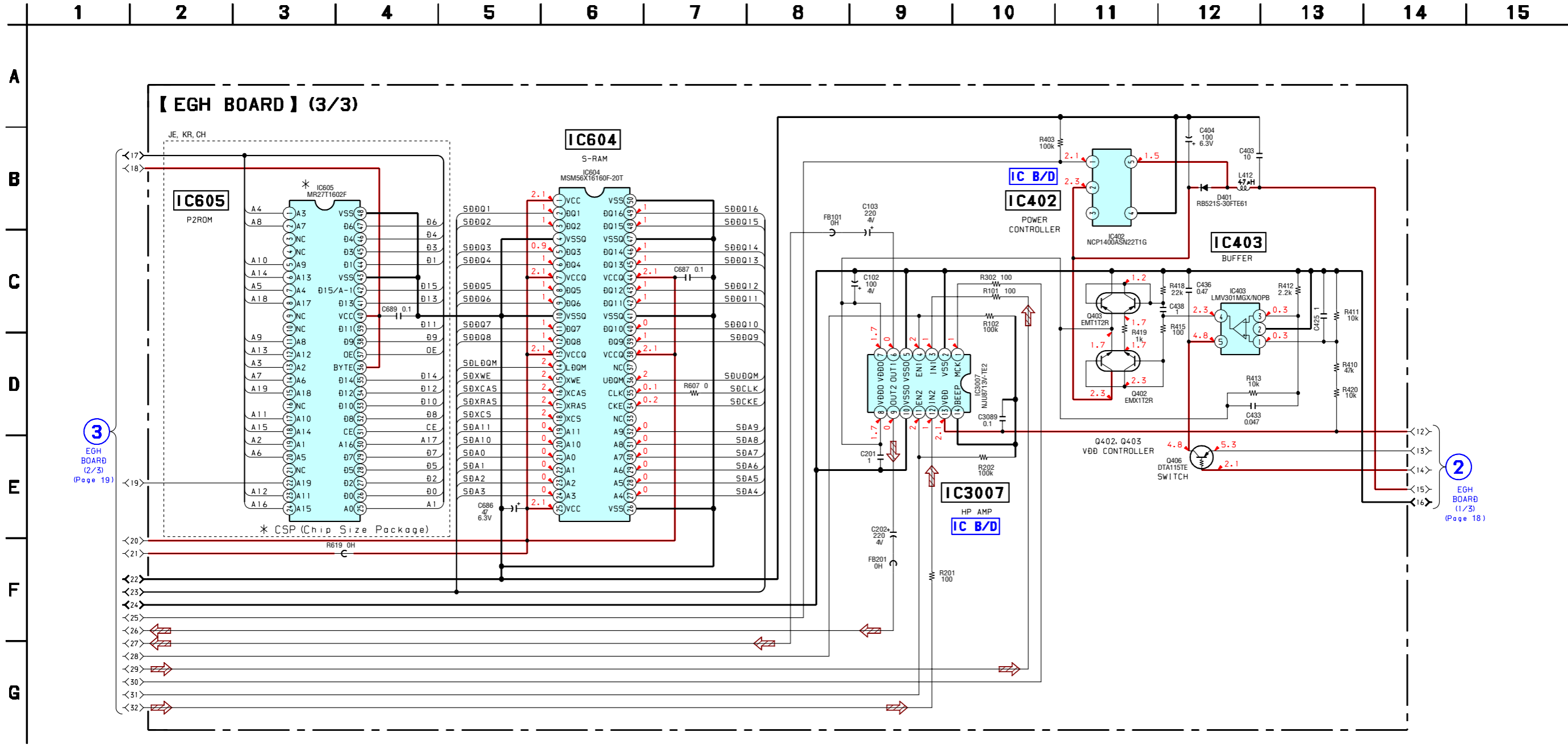
Ref. No.	Location
D401	C-8
D405	A-8
IC401	C-9
IC402	C-8
IC604	B-3
Q401	D-8
Q402	C-6
Q403	D-7
Q404	B-8
Q405	B-8
Q406	B-7
Q602	C-6



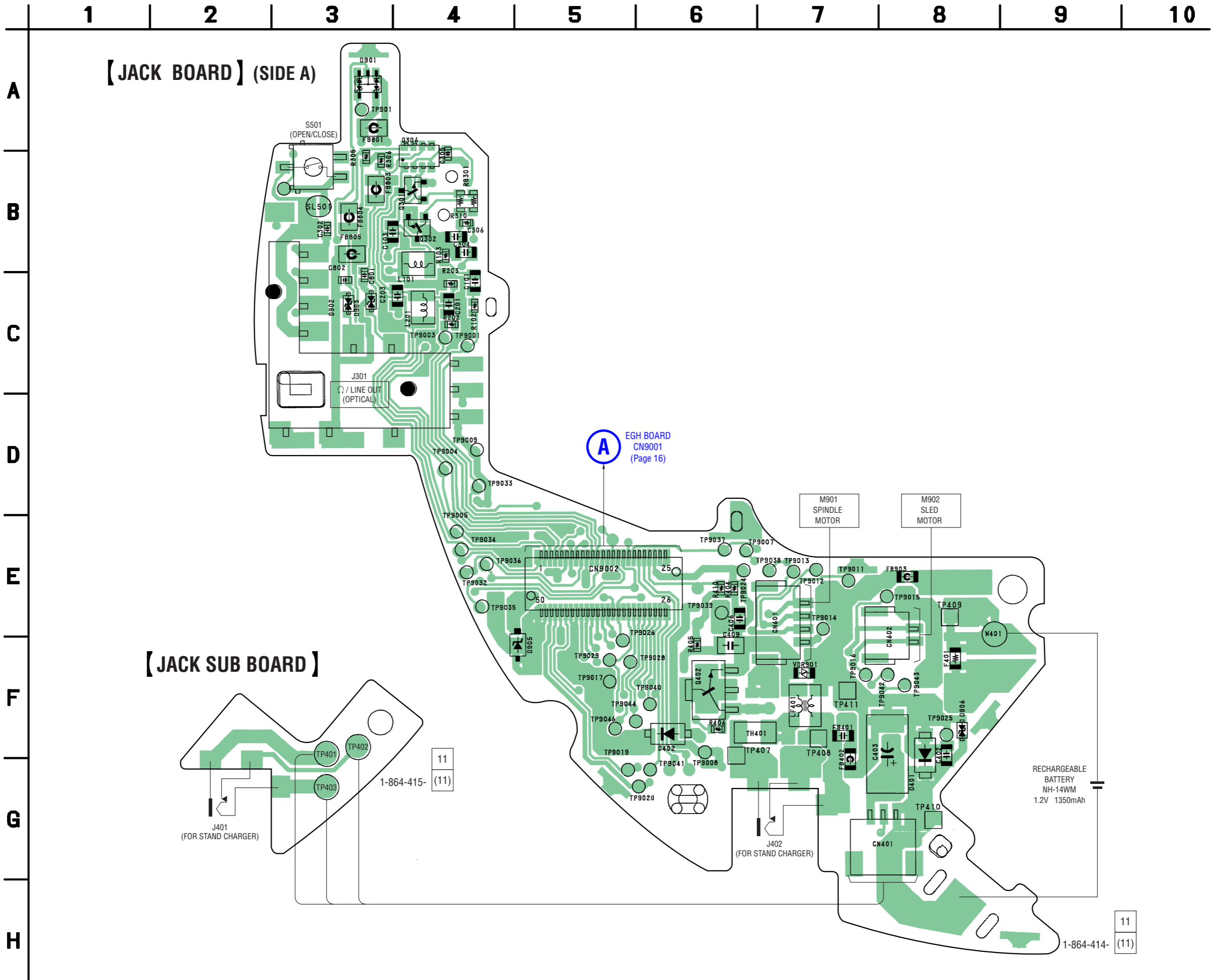
☆ IC603 (System Controller) on an EGH board can  
not be replaced individually.  
Replace with an EGH board assembly for service.

5-5. SCHEMATIC DIAGRAM – EGH BOARD (2/3) – • See page 14 for Waveform. • See page 26 for IC Pin Function Description.



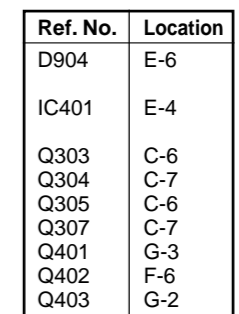


5-7. PRINTED WIRING BOARD – JACK BOARD (SIDE A), JACK SUB BOARD –  :Uses unleaded solder.

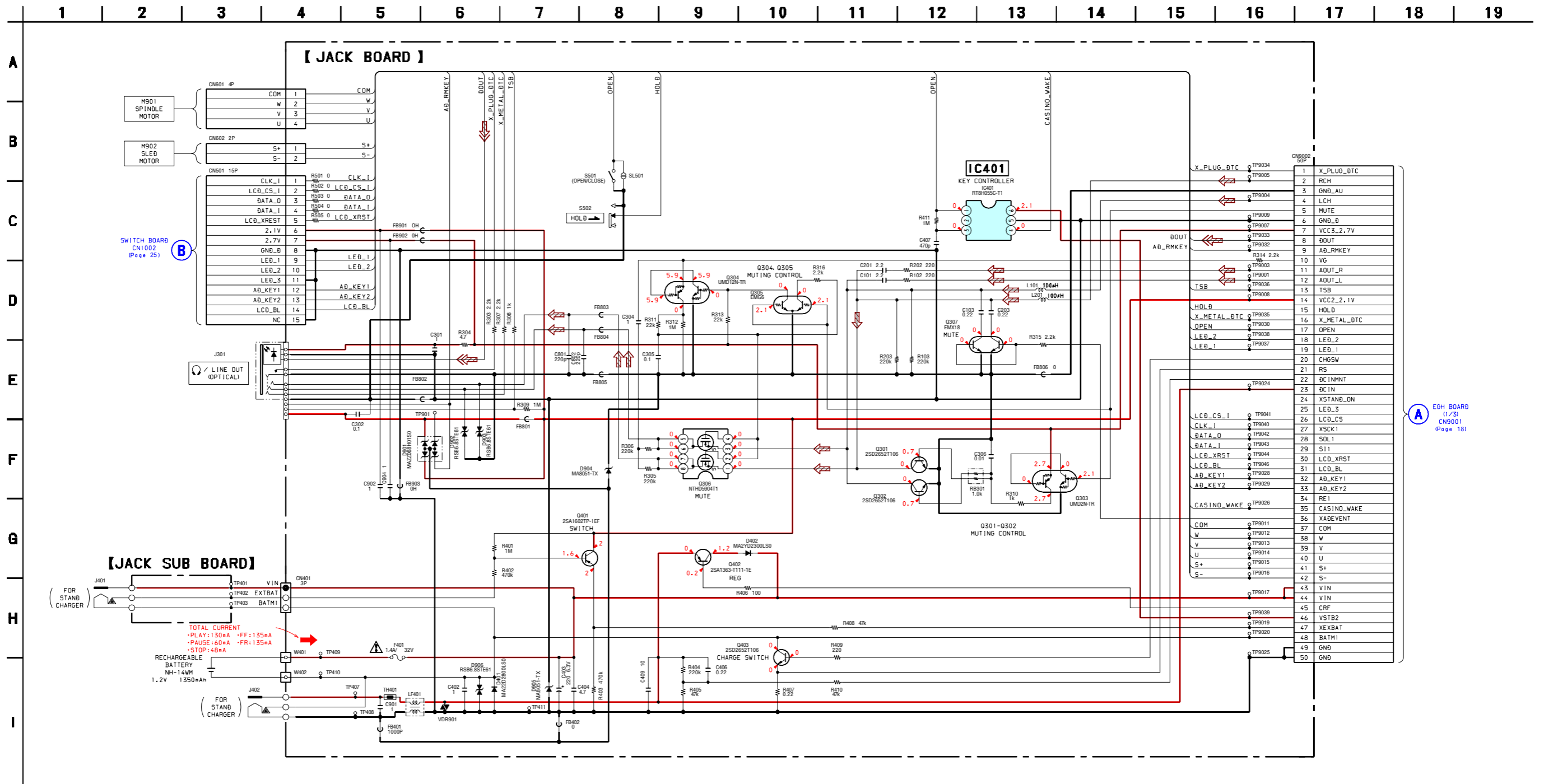


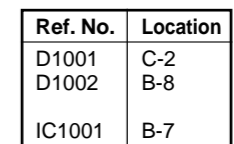
• Semiconductor Location

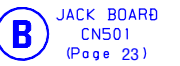
Ref. No.	Location
D401	G-8
D402	F-6
D901	A-3
D902	C-3
D903	C-3
D905	F-5
D906	F-8
Q301	B-3
Q302	B-4
Q306	A-4



5-9. SCHEMATIC DIAGRAM – JACK BOARD, JACK SUB BOARD –





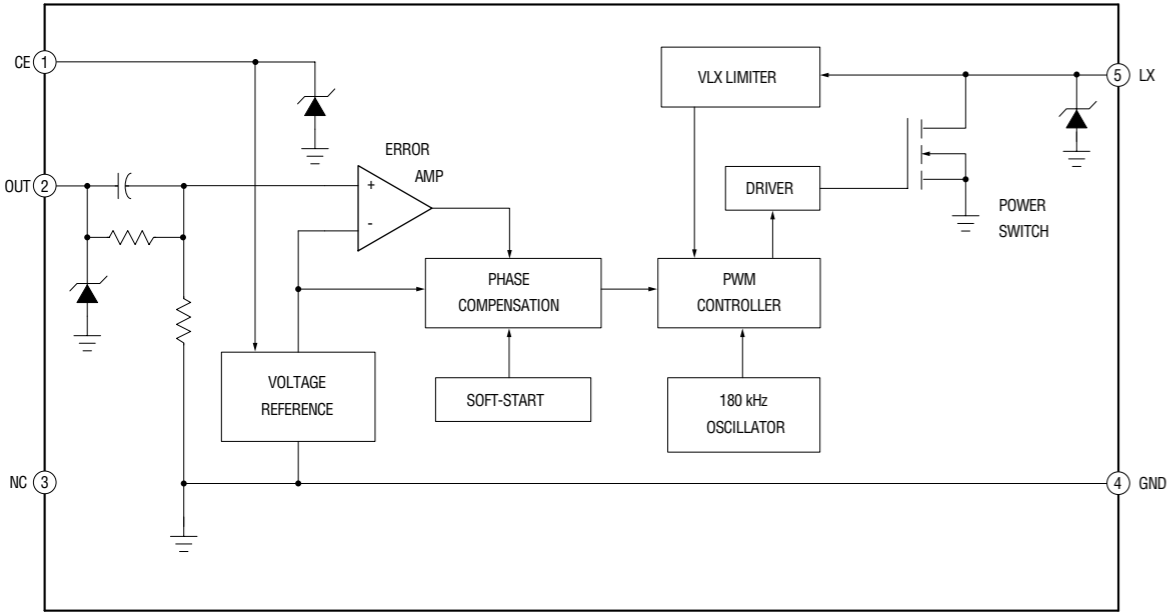


D-NE920/NE920LS

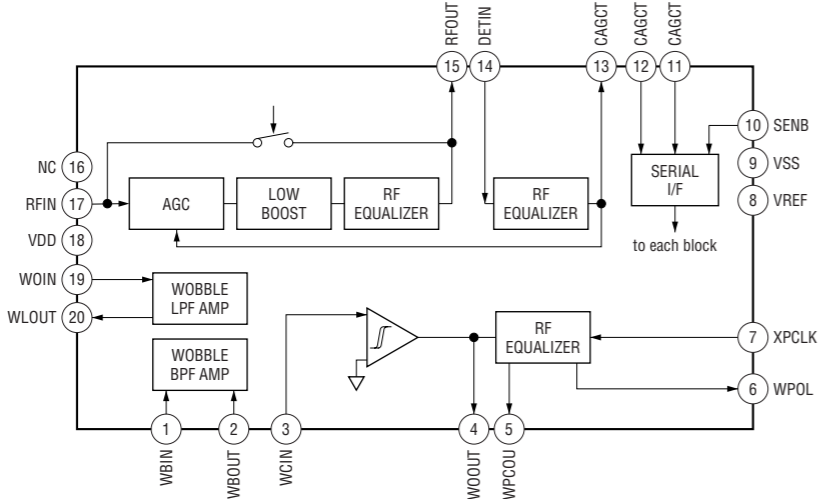
• IC Block Diagrams

– EGH Board –

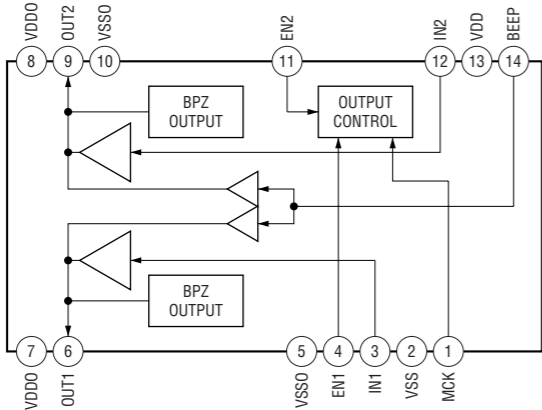
IC402 NCP1400ASN22TIG



IC601 CXD9839K-G



IC3007 NJU8713V-TE2



• IC Pin Function Description

EGH BOARD IC603 CASINO1 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	PE6/SI1	I	Status read signal input from LCD driver (not used)
2	PE5/SO1	O	Command send signal output to LCD driver (not used)
3	PE4/XSCK1	O	Clock signal output to LCD driver (not used)
4	PE3	O	Chip select signal output to EEPROM
5	VDIO0	–	Power supply terminal (+2.1V)
6	VSS0	–	Ground terminal
7	DVDD7	–	Power supply terminal (+1.5V)
8	PE2/DTCK	I	LCD indication of remote control signal output
9	PE1/RxD0	I	not used
10	PE0/TxD0	O	not used
11	EVA	–	Ground terminal
12	SDDQ16	I/O	Data bus to SDRAM
13	SDDQ15	I/O	Data bus to SDRAM
14	TAPTD0	–	not used
15	SDDQ14	I/O	Data bus to SDRAM
16	SDDQ13	I/O	Data bus to SDRAM
17	SCANEN	–	Ground terminal
18	SDDQ12	I/O	Data bus to SDRAM
19	SDDQ11	I/O	Data bus to SDRAM
20	TEST2	–	Ground terminal
21	SDDQ10	I/O	Data bus to SDRAM
22	SDDQ8	I/O	Data bus to SDRAM
23	VDIOSD0	–	Power supply terminal (+2.1V)
24	VSS1	–	Ground terminal
25	SDDQ9	I/O	Data bus to SDRAM
26	SDDQ6	I/O	Data bus to SDRAM
27	SDDQ7	I/O	Data bus to SDRAM
28	SDDQ2	I/O	Data bus to SDRAM
29	TEST3	–	Ground terminal
30	SDDQ4	I/O	Data bus to SDRAM
31	SDDQ3	I/O	Data bus to SDRAM
32	TEST0	–	Ground terminal
33	XSDWE	O	WE signal output to SDRAM
34	SDDQ1	I/O	Data bus to SDRAM
35	TEST1	–	Ground terminal
36	SDDQ5	I/O	Data bus to SDRAM
37	SDLDQM	O	UDQM signal output to SDRAM
38	VDIOSD1	–	Power supply terminal (+2.1V)
39	VSS2	–	Ground terminal
40	SDUDQM	O	LDQW signal output to SDRAM
41	XSDCAS	O	XCAS signal output to SDRAM
42	XSDCS	O	Chip select signal output to SDRAM
43	TEST5	–	not used
44	XSDRAS	O	XRAS signal output to SDRAM
45	SDCKE	O	CKE signal output to SDRAM
46	TEST6	–	not used
47	SDCLK	–	Clock signal output to SDRAM
48	SDA13	–	not used
49	XTRST	–	not used
50	SDA12	–	not used

Pin No.	Pin Name	I/O	Description
51	SDA11	O	Address bus to SDRAM
52	SDA10	O	Address bus to SDRAM
53	VDIOSD2	–	Power supply terminal (+2.1V)
54	VSS3	–	Ground terminal
55	DVDD0	–	Power supply terminal (+1.5V)
56	TMS	–	not used
57	SDA8	O	Address bus to SDRAM
58	SDA9	O	Address bus to SDRAM
59	TDO	–	not used
60	SDA7	O	Address bus to SDRAM
61	SDA6	O	Address bus to SDRAM
62	TDI	–	not used
63	SDA4	O	Address bus to SDRAM
64	SDA5	O	Address bus to SDRAM
65	TEST4	–	Ground terminal
66	SDA1	O	Address bus to SDRAM
67	SDA2	O	Address bus to SDRAM
68	RTCK	–	not used
69	SDA0	O	Address bus to SDRAM
70	SDA3	O	Address bus to SDRAM
71	TCK	–	not used
72	VDIOSD3	–	Power supply terminal (+2.1V)
73	VSS4	–	Ground terminal
74	VDIO1	–	Power supply terminal (+2.1V)
75	PI7/AIFBCK	O	Latch signal output to RF amplifier (not used)
76	PI6/AIFLRCK	O	LCD back light on/off signal output (not used)
77	PI5	O	Line out/headphone mute control signal output
78	PI4/AIFPCMD	O	Headphone amplifier chip enable signal output
79	PI3/XBCKO	O	signal output to outside D/A converter (not used)
80	PI2/LRCKO	O	signal output to outside D/A converter (not used)
81	PI1	I/O	not used
82	PI0/PCMDO	O	signal output to outside D/A converter (not used)
83	ADCLK	I	signal output to outside D/A converter (not used)
84	DOUT	O	Output terminal of digital audio signal
85	PJ7/MON7(MONCK)	O	Headphone amplifier setting control signal output
86	PJ6/MON6(MONDO)	O	Headphone amplifier setting control signal output
87	PJ5/MON5	O	Headphone amplifier, power control signal output (not used)
88	PJ4/MON4	O	SCOR monitor signal output (not used)
89	PJ3/MON3	O	GPS monitor signal output (not used)
90	PJ2/MON2	I	Sound pressure regulation volume setting signal output (not used)
91	PJ1/MON1	O	DFCT monitor signal output (not used)
92	XRST_PWR_O	O	not used
93	VSS6	–	Ground terminal
94	VDIO2	–	Power supply terminal (+2.1V)
95	DVDD1	–	Power supply terminal (+1.5V)
96	AVDDA1	–	Power supply terminal (+2.7V)
97	AOUTR	O	Built in D/A converter (R-ch) signal output
98	VREFR	I	Standard voltage terminal (for built in D/A converter R-ch)
99	AVSDA1	–	Ground terminal

## D-NE920/NE920LS

Pin No.	Pin Name	I/O	Description
100	AVSDA0	–	Ground terminal
101	VREFL	I	Standard voltage terminal (for built in D/A converter L-ch)
102	AOUTL	O	Built in D/A converter (L-ch) signal output
103	AVDDA0	–	Power supply terminal (+2.7V)
104	AVSMO	–	Ground terminal
105	EXTAL	O	System clock signal output
106	XTAL	I	System clock signal input
107	AVDMO	–	Power supply terminal (+2.7V)
108	VDIOFS256	–	Power supply terminal (+2.1V)
109	DAMPCLK	O	Master clock signal output to headphone amplifier
110	VDIOAMP	–	Power supply terminal (+2.1V)
111	PWML	O	Audio (L-ch) signal output to headphone amplifier
112	PWMR	O	Audio (R-ch) signal output to headphone amplifier
113	VSSAMP	–	Ground terminal
114	VSS7	–	Ground terminal
115	AVDPLL0	–	Power supply terminal (+2.7V)
116	AVSPLL0	–	Ground terminal
117	VDIOPLL0	–	Power supply terminal (+2.7V)
118	VSS8	–	Ground terminal
119	AVSPLL1	–	Ground terminal
120	AVDPLL1	–	Power supply terminal (+2.7V)
121	VDIOPLL1	–	Power supply terminal (+2.7V)
122	VSS9	–	Ground terminal
123	XIN	–	Ground terminal
124	VDIO3	–	Power supply terminal (+2.1V)
125	MSDIO	I	Pull up fixed at “H”
126	DVDD2	–	Power supply terminal (+1.5V)
127	PF6/DBG6/X_PLUG_DTC	I	Line out plug insert detection signal input
128	PF7/DBG7/X_METAL_DTC	I	Line out plug insert detection signal input
129	ADDR_SEK0	O	not used
130	ADDR_SEK1	O	not used
131	PF3/DBG3	I	not used
132	PF2/DBG2	I	Hold switch input terminal
133	PF1/SSCK/DBG1	O	not used
134	PF0/SSIO/DBG0	O	not used
135	VDIO4	–	Power supply terminal (+2.7V)
136	AVSSAD	–	Ground terminal
137	AVDSAD	–	Power supply terminal (+2.1V)
138	IGEN	I	Pull up fixed at “H”
139	FE(A)	O	RF focus error signal output from pick-up
140	SE(B)	O	RF sled error signal output from pick-up
141	TE(F)	O	RF tracking error signal output from pick-up
142	CE(E)	O	RF select error signal output from pick-up
143	VC	–	Ground terminal
144	RFDC(RFDCO)	I	RF signal input from pick-up
145	VSS11	–	Ground terminal
146	ASYI	I	ASY signal input
147	BIAS	I	Pull up fixed at “H”
148	ASYO	O	ASY signal output

Pin No.	Pin Name	I/O	Description
149	AVDASM	–	Power supply terminal (+2.1V)
150	AVSASM	–	Ground terminal
151	RFACI	I	RF signal output from pick-up
152	AVDVCO	–	Power supply terminal (+2.1V)
153	VCTL	I	VCT signal input
154	CLTV	I	Pull up fixed at “H”
155	AVSVCO	–	Ground terminal
156	VPCO	O	VPC signal output
157	FILO	O	FIL signal output
158	FILI	I	FIL signal input
159	PCO	O	PC signal output
160	VSS12	–	Ground terminal
161	DVDD3	–	Power supply terminal (+1.5V)
162	VDIODSP	–	Power supply terminal (+2.1V)
163	SFDR	O	Sled servo drive PWM signal output to motor driver
164	SRDR	O	Sled servo drive control signal output to motor driver
165	TFDR	O	Tracking servo drive PWM signal output to coil driver (+)
166	TRDR	O	Tracking servo drive PWM signal output to coil driver (-)
167	FFDR	O	Focus servo drive PWM signal output to coil driver (+)
168	FRDR	O	Focus servo drive PWM signal output to coil driver (-)
169	MDP	O	PWM signal output to motor driver
170	MDS	–	not used
171	C176	O	Data signal output to motor driver
172	VDIOEM0	–	Power supply terminal (+2.7V)
173	DVDD4	–	Power supply terminal (+1.5V)
174	VSS14	–	Ground terminal
175	PC3/XSCS0	O	Command latch signal output to power controller
176	PC2/SI0	I	Serial data signal input from EEPROM
177	PC1/SO0	O	Serial data signal output to power controller/EEPROM
178	PC0/XSCK0	O	Clock signal output to power controller/EEPROM
179	VSS15	–	Ground terminal
180	VDIO5	–	Power supply terminal (+2.1V)
181	PG7	I	Reset signal output to power controller
182	PG6	O	LED 1 drive control signal output
183	PG5	O	LED 2 drive control signal output
184	PG4	O	Reset signal output to LCD driver (not used)
185	PG3	O	Switching line/headphone signal output (L = headphone)
186	PG2	O	LED 3 drive control signal output (not used)
187	PG1	O	RF gain control signal output to pick-up
188	PG0	O	Standby control signal output to pick-up
189	DVDD5	–	Power supply terminal (+1.5V)
190	DVDD6	–	Power supply terminal (+1.5V)
191	VSS18	–	Ground terminal
192	AVDAD	–	Power supply terminal (+2.1V)
193	AVSAD	–	Ground terminal
194	AN7	I	Lid upper open/close detection switch input terminal
195	AN6	I	Rest of rechargeable battery detection
196	AN5	I	Battery voltage detection
197	AN4	I	Remote control key signal input

## D-NE920/NE920LS

Pin No.	Pin Name	I/O	Description
198	AN3	I	Pull up fixed at "H"
199	AN2	I	Key input terminal
200	AN1	I	Key input terminal
201	AN0	I	DC in voltage detection
202	WAKE	I	Wake up control signal input
203	XADEVENT	O	Wake signal output to power controller
204	XRST	I	System reset input terminal
205	DVDBK0	I	Pull up fixed at "H"
206	DVDBK1	I	Pull up fixed at "H"
207	VSS19	–	Ground terminal
208	VDIO6	–	Power supply terminal (+2.1V)
209	PD7/INT7	–	not used
210	PD6/INT6	–	not used
211	PD5/INT5	O	not used
212	PD4/INT4	I	External battery detection signal input ("L": external battery)
213	PD3/INT3	I	Pull up fixed at "L"
214	PD2/INT2/ECIN	I	FG pulse signal input
215	PD1/INT1/T1	O	not used
216	PD0/INT0/EC0	I	Charging stand detection signal input
217	PE7/ZSCS1	O	LCD driver chip select signal output
218	NCS1	O	Chip enable signal output to P2ROM
219 to 237	A1 to A19	O	Address data signal output to P2ROM
238	NRD	O	Out enable signal output to P2ROM
239	NWE1	–	not used
240 to 255	DQ0 to DQ15	I	P2ROM data signal input
256	VDD_FL1	–	not used
257	VSS_LF1	–	Ground terminal
258	XTAO	–	not used
259	XTAI	–	not used
260	MSBS	–	not used
261	MSSCLK	–	not used
262	NMSINS	–	Power supply terminal (+2.1V)
263 to 272	NC	–	not used

## SECTION 6 EXPLODED VIEWS

### NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:  
KNOB, BALANCE (WHITE) . . . (RED)

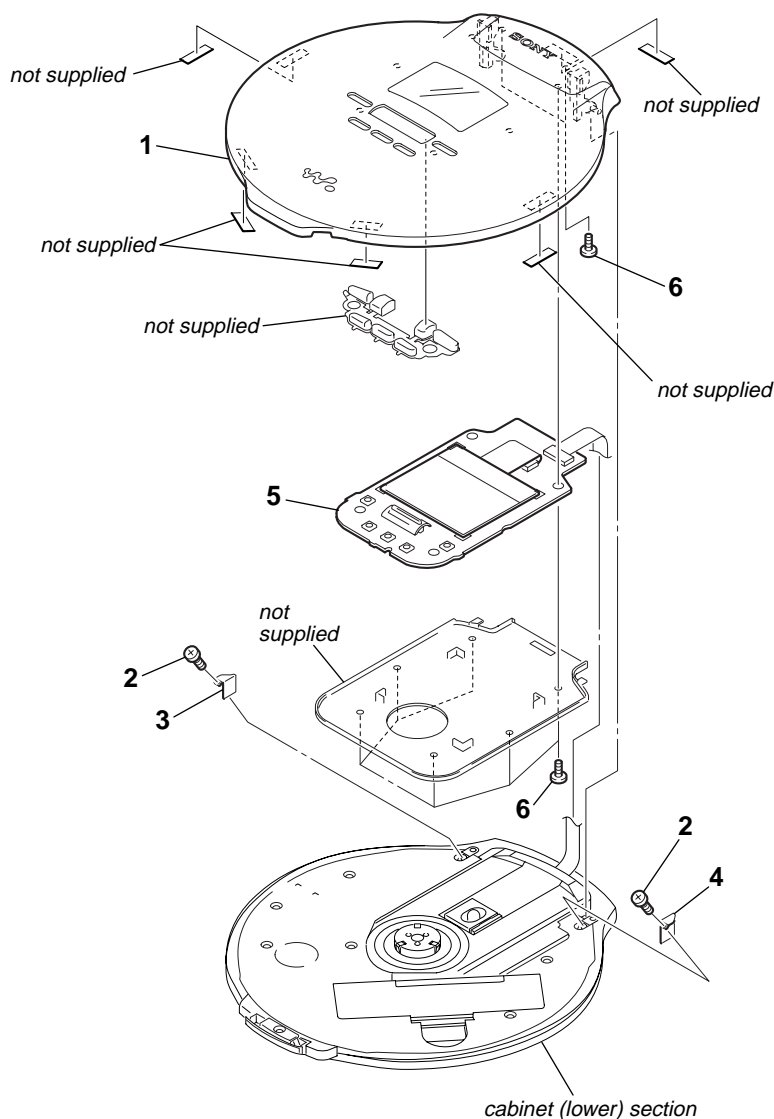
↑                      ↑  
Parts of Color    Cabinet's Color

- Abbreviation  
AUS : Australian model  
CH : Chinese model  
CND : Canadian model  
E18 : 100-230 V AC area in E model  
E33 : 100-240 V AC area in E model  
EA : Saudi Arabia model  
EE : East European model  
HK : Hong Kong model  
JE : Tourist model  
KR : Korean model

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

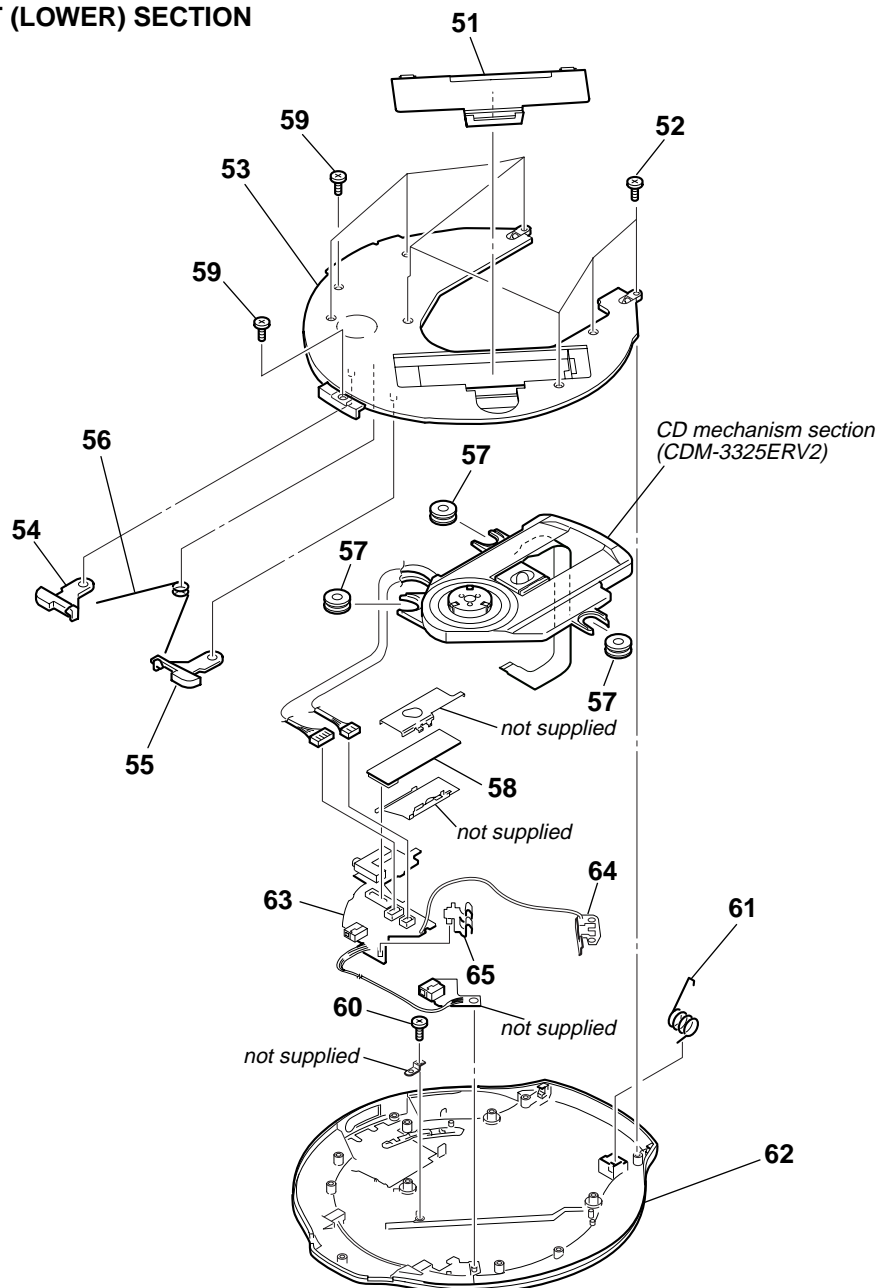
Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

### 6-1. OVERALL ASSY



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-2048-434-1	UPPER LID SUB ASSY (SVX)(SILVER) (US, CND, AEP, UK, EE, E18, E33, JE, HK, AUS)		2	3-254-022-11	SCREW	
1	X-2048-435-1	UPPER LID SUB ASSY (SVX)(BLUE)(E18, JE)		3	2-188-920-01	BLACKET (HINGE L)	
1	X-2048-436-1	UPPER LID SUB ASSY (SVX)(WHITE)(E18)		4	2-188-921-01	BLACKET (HINGE R)	
1	X-2048-437-1	UPPER LID SUB ASSY (SVX)(SILVER)(KR, CH)		5	A-1076-792-A	SWITCH BOARD, COMPLETE	
1	X-2048-438-1	UPPER LID SUB ASSY (SVX)(BLUE)(CH)		6	3-254-014-11	SCREW	
1	X-2048-439-1	UPPER LID SUB ASSY (SVX)(WHITE)(KR, CH)					

## 6-2. CABINET (LOWER) SECTION

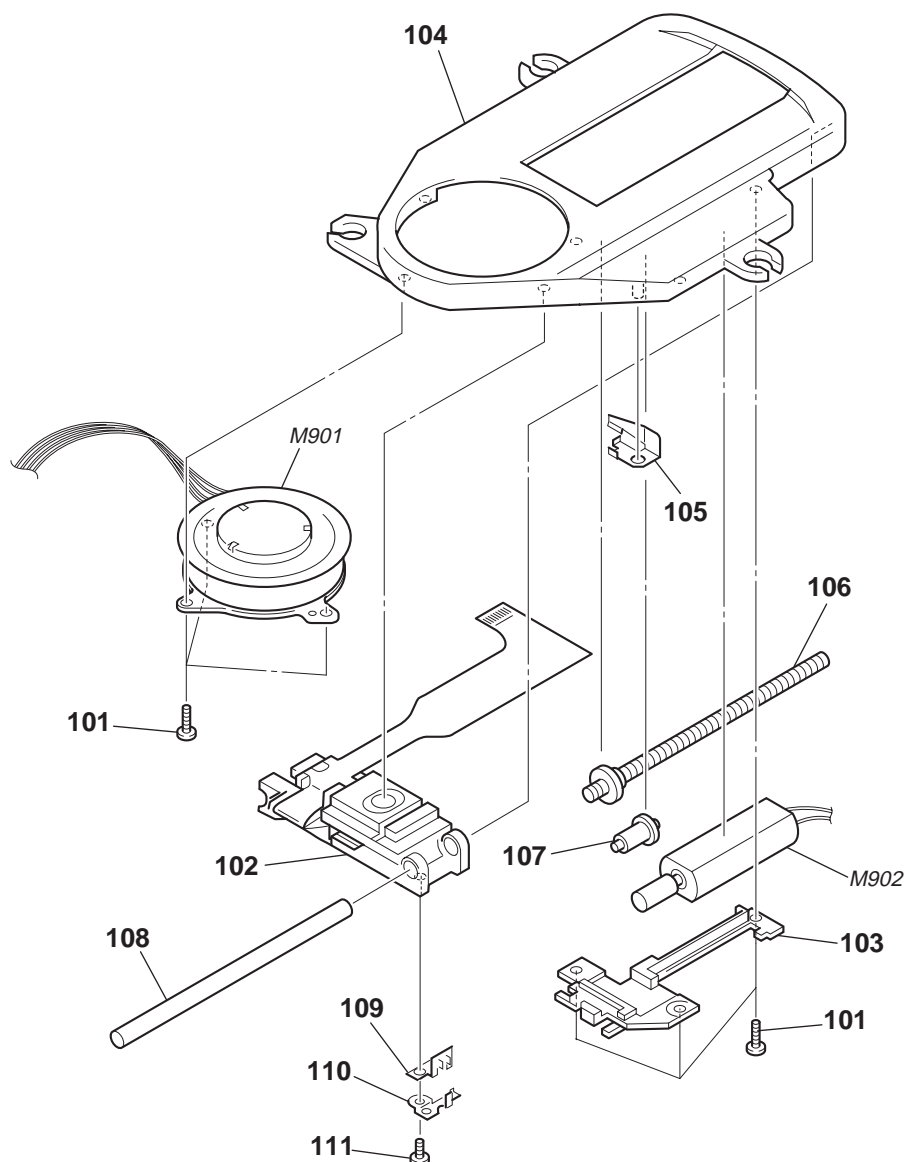


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	2-541-612-11	LID, BATTERY (EXCEPT CH)		62	X-2024-370-1	CABINET (LOWER) ASSY (BLUE)	
51	2-541-612-21	LID, BATTERY (CH)				(JE, CND, JE, E33, AUS)	
52	3-254-058-11	SCREW		62	X-2024-371-1	CABINET (LOWER) ASSY (WHITE)	
53	X-2024-372-1	CABINET (MIDDLE) SUB ASSY				(US, CND, JE, E33, AUS)	
54	2-187-578-01	KONB, OPEN (L)		62	X-2024-544-1	CABINET (LOWER) ASSY (SILVER)(HK, E18)	
				62	X-2024-545-1	CABINET (LOWER) ASSY (BLUE)(E18, HK)	
55	2-187-579-01	KONB, OPEN (R)		62	X-2024-546-1	CABINET (LOWER) ASSY (WHITE)(E18, HK)	
56	3-258-894-01	SPRING (LOCK CLAW)		62	X-2024-547-1	CABINET (LOWER) ASSY (SILVER)	
57	3-245-331-02	INSULATOR				(AEP, UK, EE)	
58	A-1081-863-A	EGH BOARD, COMPLETE (CH)		62	X-2024-623-1	CABINET (LOWER) ASSY (SILVER)(KR, CH)	
58	X-2055-526-3	EGH BOARD, COMPLETE (JE, KR)		62	X-2024-624-1	CABINET (LOWER) ASSY (BLUE)(KR, CH)	
58	X-2055-527-3	EGH BOARD, COMPLETE		62	X-2024-625-1	CABINET (LOWER) ASSY (WHITE)(KR, CH)	
		(US, CND, HK, E18, E33, AUS)					
58	X-2055-528-3	EGH BOARD, COMPLETE (AEP, UK, EE)		63	A-1076-795-A	JACK BOARD, COMPLETE (JE, KR)	
59	3-254-029-11	SCREW		63	A-1098-012-A	JACK BOARD, COMPLETE (US, CND)	
60	3-254-014-11	SCREW		63	A-1098-013-A	JACK BOARD, COMPLETE	
61	3-260-673-01	SPRING (UPPER LID)				(AEP, UK, EE, HK, E18, E33, CH, AUS)	
62	X-2024-369-1	CABINET (LOWER) ASSY (SILVER)		64	2-187-574-01	TERMINAL (+), BATTERY	
		(US, JE, CND, E33, AUS)		65	2-187-575-01	TERMINAL (-), BATTERY	

**NOTES ON HANDLING OF PATCH**

The handling of PATCH is necessary when a mounted EGH board is exchanged or when EEPROM(IC602) on an EGH board is exchanged. Please confirm in each service front office about the information on the handling of PATCH.

### 6-3. CD MECHANISM SECTION (CDM-3325ERV2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-318-203-61	SCREW (B1.7X4), TAPPING		108	3-221-475-01	SHAFT, STANDARD	
△ 102	X-3383-995-1	OPTICAL PICK-UP (DAX-25EV)		109	3-222-298-01	RACK	
103	3-221-473-01	COVER, GEAR		110	3-222-299-01	SPRING, RACK RETAINER	
104	3-221-472-02	CHASSIS		111	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
105	3-221-474-01	SPRING, SLED		M901	A-3608-777-A	MOTOR ASSY, TURN TABLE (SPINDLE)	
106	A-3331-663-A	SCREW (FEED) ASSY		M902	A-1016-630-A	MOTOR ASSY, SLED (SLED)(CH)	
107	3-221-268-01	GEAR (B)		M902	A-3174-850-A	MOTOR ASSY, SLED (SLED)(EXCEPT CH)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

# SECTION 7

## ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service.  
Some delay should be anticipated when ordering these items.
- RESISTORS**  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable

- Abbreviation**  
AUS : Australian model  
CH : Chinese model  
CND : Canadian model  
E18 : 100-230 V AC area in E model  
E33 : 100-240 V AC area in E model  
EA : Saudi Arabia model  
EE : East European model  
HK : Hong Kong model  
JE : Tourist model  
KR : Korean model
- Accessories are given in the last of this parts list.
- CAPACITORS**  
uF:  $\mu\text{F}$
- COILS**  
uH:  $\mu\text{H}$

• **SEMICONDUCTORS**In each case, u:  $\mu$ , for example:uA. . :  $\mu\text{A}$ . .      uPA. . :  $\mu\text{PA}$ . .uPB. . :  $\mu\text{PB}$ . .      uPC. . :  $\mu\text{PC}$ . .uPD. . :  $\mu\text{PD}$ . .

When indicating parts by reference number, please include the board name.

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1081-863-A	EGH BOARD, COMPLETE (CH)		C435	1-100-507-91	CERAMIC CHIP 4.7uF 20% 6.3V	
	X-2055-526-3	EGH BOARD, COMPLETE (JE, KR)		C436	1-100-415-11	CERAMIC CHIP 0.47uF 10% 6.3V	
	X-2055-527-3	EGH BOARD, COMPLETE (US, CND, HK, E18, E33, AUS)		C437	1-100-539-91	TANTAL. CHIP 47uF 20% 6.3V	
	X-2055-528-3	EGH BOARD, COMPLETE (AEP, UK, EE)		C438	1-100-506-91	CERAMIC CHIP 1uF 20% 6.3V	
	*****			C439	1-165-887-91	CERAMIC CHIP 0.22uF 10% 6.3V	
	< CAPACITOR >			C440	1-100-539-91	TANTAL. CHIP 47uF 20% 6.3V	
C102	1-100-661-11	TANTAL. CHIP 100uF 20% 4V		C441	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C103	1-137-859-11	TANTAL. CHIP 220uF 20% 4V		C442	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C201	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V		C443	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C202	1-137-859-11	TANTAL. CHIP 220uF 20% 4V		C444	1-100-539-91	TANTAL. CHIP 47uF 20% 6.3V	
C401	1-100-506-91	CERAMIC CHIP 1uF 20% 6.3V		C445	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C402	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V		C446	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V	
C403	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V		C447	1-100-506-91	CERAMIC CHIP 1uF 20% 6.3V	
C404	1-100-875-91	TANTAL. CHIP 100uF 20% 6.3V		C448	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C405	1-119-923-11	CERAMIC CHIP 0.047uF 10% 10V		C449	1-164-931-11	CERAMIC CHIP 100PF 10% 50V	
C408	1-165-887-91	CERAMIC CHIP 0.22uF 10% 6.3V		C450	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V	
C409	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V		C601	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V	
C410	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V		C602	1-112-063-11	CERAMIC CHIP 470PF 10% 50V	
C411	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V		C603	1-100-506-91	CERAMIC CHIP 1uF 20% 6.3V	
C412	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V		C604	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C413	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V		C605	1-127-715-91	CERAMIC CHIP 0.22uF 10% 16V	
C414	1-164-941-11	CERAMIC CHIP 0.0047uF 10% 16V		C606	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V	
C415	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V		C607	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V	
C416	1-127-715-91	CERAMIC CHIP 0.22uF 10% 16V		C608	1-164-858-11	CERAMIC CHIP 22PF 5% 50V	
C417	1-127-715-91	CERAMIC CHIP 0.22uF 10% 16V		C609	1-164-939-11	CERAMIC CHIP 0.0022uF 10% 50V	
C418	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V		C610	1-100-506-91	CERAMIC CHIP 1uF 20% 6.3V	
C419	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V		C611	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V	
C420	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V		C612	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C421	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V		C613	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C422	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V		C614	1-119-923-11	CERAMIC CHIP 0.047uF 10% 10V	
C423	1-100-539-91	TANTAL. CHIP 47uF 20% 6.3V		C617	1-164-941-11	CERAMIC CHIP 0.0047uF 10% 16V	
C424	1-127-715-91	CERAMIC CHIP 0.22uF 10% 16V		C618	1-164-941-11	CERAMIC CHIP 0.0047uF 10% 16V	
C425	1-100-506-91	CERAMIC CHIP 1uF 20% 6.3V		C619	1-164-941-11	CERAMIC CHIP 0.0047uF 10% 16V	
C426	1-100-539-91	TANTAL. CHIP 47uF 20% 6.3V		C626	1-100-506-91	CERAMIC CHIP 1uF 20% 6.3V	
C427	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V		C627	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V	
C428	1-135-259-11	TANTAL. CHIP 10uF 20% 6.3V		C629	1-107-820-11	CERAMIC CHIP 0.1uF 16V	
C429	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V		C631	1-107-820-11	CERAMIC CHIP 0.1uF 16V	
C430	1-100-539-91	TANTAL. CHIP 47uF 20% 6.3V		C639	1-107-820-11	CERAMIC CHIP 0.1uF 16V	
C431	1-100-662-11	TANTAL. CHIP 47uF 20% 6.3V		C645	1-165-887-91	CERAMIC CHIP 0.22uF 10% 6.3V	
C432	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V		C646	1-107-820-11	CERAMIC CHIP 0.1uF 16V	
C433	1-119-923-11	CERAMIC CHIP 0.047uF 10% 10V		C648	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	
C434	1-125-838-11	CERAMIC CHIP 2.2uF 10% 6.3V		C649	1-100-415-11	CERAMIC CHIP 0.47uF 10% 6.3V	

**NOTES ON HANDLING OF PATCH**

The handling of PATCH is necessary when a mounted EGH board is exchanged or when EEPROM(IC602) on an EGH board is exchanged.

Please confirm in each service front office about the information on the handling of PATCH.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C650	1-164-941-11	CERAMIC CHIP	0.0047uF 10% 16V	< TRANSISTOR >			
C653	1-100-415-11	CERAMIC CHIP	0.47uF 10% 6.3V	Q401	6-551-139-01	TRANSISTOR	DTC115TE-TL
C654	1-125-777-11	CERAMIC CHIP	0.1uF 10% 10V	Q402	8-729-053-52	TRANSISTOR	EMX1T2R
C659	1-107-820-11	CERAMIC CHIP	0.1uF 16V	Q403	8-729-053-54	TRANSISTOR	EMT1T2R
C664	1-100-539-91	TANTAL. CHIP	47uF 20% 6.3V	Q404	6-551-140-01	TRANSISTOR	QS6K1
C667	1-107-820-11	CERAMIC CHIP	0.1uF 16V	Q405	6-551-140-01	TRANSISTOR	QS6K1
C676	1-107-820-11	CERAMIC CHIP	0.1uF 16V	Q406	6-551-279-01	TRANSISTOR	DTA115TE
C677	1-107-820-11	CERAMIC CHIP	0.1uF 16V	Q601	8-729-427-49	TRANSISTOR	XP4214-TXE
C678	1-119-750-11	TANTAL. CHIP	22uF 20% 6.3V	Q602	6-550-232-01	TRANSISTOR	2SA1832FV (TH3SONY)
C680	1-164-846-11	CERAMIC CHIP	6PF 0.5PF 50V	< RESISTOR >			
C681	1-164-846-11	CERAMIC CHIP	6PF 0.5PF 50V	R101	1-218-941-81	RES-CHIP	100 5% 1/16W
C686	1-100-539-91	TANTAL. CHIP	47uF 20% 6.3V	R102	1-218-977-11	RES-CHIP	100K 5% 1/16W
C687	1-107-820-11	CERAMIC CHIP	0.1uF 16V	R201	1-218-941-81	RES-CHIP	100 5% 1/16W
C689	1-107-820-11	CERAMIC CHIP	0.1uF 16V	R202	1-218-977-11	RES-CHIP	100K 5% 1/16W
			(JE, KR, CH)	R302	1-218-941-81	RES-CHIP	100 5% 1/16W
C694	1-125-777-11	CERAMIC CHIP	0.1uF 10% 10V	R401	1-218-977-11	RES-CHIP	100K 5% 1/16W
C695	1-100-945-11	CAP. CHIP CERAMIC	4700PF B	R402	1-218-977-11	RES-CHIP	100K 5% 1/16W
C3089	1-125-777-11	CERAMIC CHIP	0.1uF 10% 10V	R403	1-218-977-11	RES-CHIP	100K 5% 1/16W
< CONNECTOR >				R404	1-218-989-11	RES-CHIP	1M 5% 1/16W
CN601	1-818-130-11	CONNECTOR, FFC/FPC (ZIF) 15P		R405	1-218-977-11	RES-CHIP	100K 5% 1/16W
CN9001	1-818-842-11	CONNECTOR, BOARD TO BOARD 50P		R406	1-216-864-11	SHORT CHIP	0
< DIODE >				R407	1-218-990-11	SHORT CHIP	0
D401	6-500-540-01	DIODE RB521S-30FTE61		R408	1-218-977-11	RES-CHIP	100K 5% 1/16W
D405	8-719-071-87	DIODE MA785-(TX), SO		R409	1-218-973-11	RES-CHIP	47K 5% 1/16W
< FERRITE BEAD >				R410	1-218-973-11	RES-CHIP	47K 5% 1/16W
FB101	1-400-808-21	INDUCTOR (EMI FERRITE) (1608)		R411	1-218-965-11	RES-CHIP	10K 5% 1/16W
FB201	1-400-808-21	INDUCTOR (EMI FERRITE) (1608)		R412	1-218-957-11	RES-CHIP	2.2K 5% 1/16W
FB401	1-400-461-21	FERRITE, EMI (SMD) (1005)		R413	1-218-965-11	RES-CHIP	10K 5% 1/16W
FB402	1-216-864-11	SHORT CHIP	0	R414	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
< IC >				R415	1-218-941-81	RES-CHIP	100 5% 1/16W
IC401	6-706-457-01	IC SC901590VAR2		R417	1-218-941-81	RES-CHIP	100 5% 1/16W
IC402	6-707-209-01	IC NCP1400ASN22T1G		R418	1-218-969-11	RES-CHIP	22K 5% 1/16W
IC403	6-703-652-01	IC LMV301MGX/NOPB		R419	1-218-953-11	RES-CHIP	1K 5% 1/16W
IC601	6-707-088-01	IC CXD9839K-G		R420	1-218-965-11	RES-CHIP	10K 5% 1/16W
★ IC602	6-702-355-01	IC AK6510CL-L		R421	1-218-977-11	RES-CHIP	100K 5% 1/16W
☆ IC603	not supplied	MOUNTED PC BOARD (CASINO1)		R423	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
IC604	6-706-995-01	IC MSM56X16160F-20T		R424	1-218-989-11	RES-CHIP	1M 5% 1/16W
IC605	6-804-719-01	IC MR27T1602F (JE, KR, CH)		R426	1-218-973-11	RES-CHIP	47K 5% 1/16W
IC606	6-707-398-01	IC XC6213B212NR		R427	1-220-804-11	RES-CHIP	2.2M 5% 1/16W
IC3007	6-703-631-01	IC NJU8713V-TE2		R428	1-218-973-11	RES-CHIP	47K 5% 1/16W
< COIL >				R429	1-218-969-11	RES-CHIP	22K 5% 1/16W
L401	1-456-894-21	INDUCTOR	47uH	R430	1-218-989-11	RES-CHIP	1M 5% 1/16W
L402	1-400-850-21	INDUCTOR	47uH	R431	1-218-989-11	RES-CHIP	1M 5% 1/16W
L403	1-419-646-21	INDUCTOR	47uH	R432	1-218-953-11	RES-CHIP	1K 5% 1/16W
L404	1-469-967-21	INDUCTOR	10uH	R435	1-218-973-11	RES-CHIP	47K 5% 1/16W
L405	1-400-850-21	INDUCTOR	47uH	R436	1-218-953-11	RES-CHIP	1K 5% 1/16W
L406	1-456-218-21	INDUCTOR	22uH	R437	1-218-953-11	RES-CHIP	1K 5% 1/16W
L407	1-400-145-21	INDUCTOR	47uH	R446	1-218-965-11	RES-CHIP	10K 5% 1/16W
L408	1-400-145-21	INDUCTOR	47uH	R601	1-218-981-11	RES-CHIP	220K 5% 1/16W
L409	1-428-912-21	INDUCTOR	10uH	R602	1-208-911-11	METAL CHIP	10K 0.5% 1/16W
L410	1-400-317-21	INDUCTOR	100uH	R603	1-218-929-11	RES-CHIP	10 5% 1/16W
L412	1-456-894-21	INDUCTOR	47uH	R604	1-218-981-11	RES-CHIP	220K 5% 1/16W
							(EXCEPT AEP, UK, EE)
				R606	1-218-990-11	SHORT CHIP	0
				R607	1-218-990-11	SHORT CHIP	0
				R608	1-218-973-11	RES-CHIP	47K 5% 1/16W

## ★ NOTES ON HANDLING OF PATCH

The handling of PATCH is necessary when a mounted EGH board is exchanged or when EEPROM(IC602) on an EGH board is exchanged. Please confirm in each service front office about the information on the handling of PATCH.

☆ IC603 (System Controller) on an EGH board can not be replaced individually.  
Replace with an EGH board assembly for service.

D-NE920/NE920LS

Ver. 1.2

EGH JACK

Ref. No.	Part No.	Description	Remark		
R609	1-218-969-11	RES-CHIP	22K	5%	1/16W
R610	1-218-969-11	RES-CHIP	22K	5%	1/16W
R611	1-218-990-11	SHORT CHIP	0		
R612	1-218-977-11	RES-CHIP	100K	5%	1/16W
R613	1-218-990-11	SHORT CHIP	0		
R615	1-218-981-11	RES-CHIP	220K	5%	1/16W
R616	1-218-985-11	RES-CHIP	470K	5%	1/16W
R617	1-218-965-11	RES-CHIP	10K	5%	1/16W
R618	1-218-953-11	RES-CHIP	1K	5%	1/16W
R619	1-400-461-21	FERRITE, EMI (SMD) (1005)			
R620	1-218-973-11	RES-CHIP	47K	5%	1/16W
R621	1-218-953-11	RES-CHIP	1K	5%	1/16W
R622	1-218-981-11	RES-CHIP	220K	5%	1/16W
(AEP, UK, EE)					
R623	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R624	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R625	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R628	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R629	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R634	1-218-965-11	RES-CHIP	10K	5%	1/16W
R635	1-218-989-11	RES-CHIP	1M	5%	1/16W
R636	1-218-977-11	RES-CHIP	100K	5%	1/16W
R637	1-218-981-11	RES-CHIP	220K	5%	1/16W
R639	1-218-973-11	RES-CHIP	47K	5%	1/16W
R642	1-218-973-11	RES-CHIP	47K	5%	1/16W
R644	1-218-937-11	RES-CHIP	47	5%	1/16W
R649	1-218-969-11	RES-CHIP	22K	5%	1/16W
R650	1-218-977-11	RES-CHIP	100K	5%	1/16W
R651	1-218-977-11	RES-CHIP	100K	5%	1/16W
R653	1-218-965-11	RES-CHIP	10K	5%	1/16W
R655	1-218-977-11	RES-CHIP	100K	5%	1/16W
< COMPOSITION CIRCUIT BLOCK >					
RB601	1-233-969-11	RES, NETWORK (CHIP TYPE) 22K			
< VIBRATOR >					
X601	1-813-314-11	VIBRATOR, CRYSTAL 22.579MHz			
*****					
A-1076-795-A JACK BOARD, COMPLETE (JE, KR)					
A-1098-012-A JACK BOARD, COMPLETE (US, CND)					
A-1098-013-A JACK BOARD, COMPLETE					
(AEP, UK, EE, HK, E18, E33, CH, AUS)					
*****					
2-187-574-01 TERMINAL (+), BATTERY					
2-187-575-01 TERMINAL (-), BATTERY					
< CAPACITOR >					
C101	1-165-884-91	CERAMIC CHIP	2.2uF	10%	6.3V
C103	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C201	1-165-884-91	CERAMIC CHIP	2.2uF	10%	6.3V
C203	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C301	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C302	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C304	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C305	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C402	1-115-156-11	CERAMIC CHIP	1uF		10V

Ref. No.	Part No.	Description	Remark		
C403	1-128-829-91	TANTAL. CHIP	220uF	20%	6.3V
C404	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C406	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C407	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C409	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C801	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
C802	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
C901	1-115-156-11	CERAMIC CHIP	1uF		10V
C902	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C904	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
< CONNECTOR >					
CN401	1-770-620-21	PIN, CONNECTOR 3P			
CN501	1-818-130-11	CONNECTOR, FFC/FPC (ZIF) 15P			
CN601	1-785-877-21	HOUSING, CONNECTOR 4P			
CN602	1-784-342-21	HOUSING, CONNECTOR 2P			
CN9002	1-818-843-11	CONNECTOR, BOARD TO BOARD 50P			
< DIODE >					
D401	6-500-483-01	DIODE MA22D2800LS0			
D402	8-719-085-43	DIODE MA2YD2300LS0			
D901	8-719-077-43	DIODE MAZZ068H01S0			
D902	8-719-083-04	DIODE RSB6.8STE61			
D903	8-719-083-04	DIODE RSB6.8STE61			
D904	8-719-422-37	DIODE MA8051-TX			
D905	8-719-422-37	DIODE MA8051-TX			
D906	8-719-083-04	DIODE RSB6.8STE61			
< FUSE >					
△ F401	1-576-406-21	FUSE, MICRO (1608) 1.4A/32V			
< FERRITE BEAD >					
FB401	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
FB402	1-216-864-11	SHORT CHIP	0		
FB801	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB802	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB803	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB804	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB805	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB806	1-216-295-91	SHORT CHIP	0		
FB901	1-414-760-21	FERRITE, EMI (SMD) (1608)			
FB902	1-414-760-21	FERRITE, EMI (SMD) (1608)			
FB903	1-414-760-21	FERRITE, EMI (SMD) (1608)			
< IC >					
IC401	6-707-315-01	IC RT8H055C-T1			
< JACK >					
J301	1-818-840-21	JACK (○ / LINE OUT (OPTICAL))			
J402	1-818-841-11	JACK, DC			
< COIL >					
L101	1-400-849-21	INDUCTOR, CHIP	100uH (2518)		
L201	1-400-849-21	INDUCTOR, CHIP	100uH (2518)		
< LINE FILTER >					
LF401	1-416-405-21	FILTER, CHIP EMI (COMMON MODE)			

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	--

JACK

JACK SUB

SWITCH

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
< TRANSISTOR >						< VARISTOR >					
Q301	6-550-364-01	TRANSISTOR	2SD2652T106			VDR901	1-801-862-11	VARISTOR, CHIP	(1608)		
Q302	6-550-364-01	TRANSISTOR	2SD2652T106			*****					
Q303	6-550-375-01	TRANSISTOR	UMD2N-TR								
Q304	8-729-047-48	TRANSISTOR	UMD12N-TR			JACK SUB BOARD					
Q305	6-551-132-01	TRANSISTOR	EMG6			*****					
						< JACK >					
Q306	6-550-527-01	TRANSISTOR	NTHD5904T1			J401	1-818-841-11	JACK, DC			
Q307	6-551-186-01	TRANSISTOR	EMX18			*****					
Q401	8-729-602-36	TRANSISTOR	2SA1602TP-1EF								
Q402	6-550-760-01	TRANSISTOR	2SA1363-T111-1E								
Q403	6-550-364-01	TRANSISTOR	2SD2652T106			A-1076-792-A SWITCH BOARD, COMPLETE					
						*****					
< RESISTOR >											
R102	1-218-945-11	RES-CHIP	220	5%	1/16W		1-805-687-11	DISPLAY PANEL, LIQUID CRYSTAL			
R103	1-218-981-11	RES-CHIP	220K	5%	1/16W		1-805-700-11	ELEMENT, EL INDICATOR			
R202	1-218-945-11	RES-CHIP	220	5%	1/16W		1-829-898-11	CABLE, FLEXIBLE FLAT (15 CORE)			
R203	1-218-981-11	RES-CHIP	220K	5%	1/16W		2-187-673-01	SHEET (LCD), ADHESIVE			
R303	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	< CAPACITOR >					
R304	1-220-803-81	RES-CHIP	4.7	5%	1/16W	C1001	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
R305	1-218-981-11	RES-CHIP	220K	5%	1/16W	C1002	1-100-996-21	CERAMIC CHIP	0.1uF	10% 250V	
R306	1-218-981-11	RES-CHIP	220K	5%	1/16W	C1003	1-127-715-91	CERAMIC CHIP	0.22uF	10% 16V	
R307	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	C1004	1-127-715-91	CERAMIC CHIP	0.22uF	10% 16V	
R308	1-218-953-11	RES-CHIP	1K	5%	1/16W	C1005	1-127-715-91	CERAMIC CHIP	0.22uF	10% 16V	
R309	1-218-989-11	RES-CHIP	1M	5%	1/16W	C1006	1-127-715-91	CERAMIC CHIP	0.22uF	10% 16V	
R310	1-218-953-11	RES-CHIP	1K	5%	1/16W	C1007	1-127-715-91	CERAMIC CHIP	0.22uF	10% 16V	
R311	1-218-969-11	RES-CHIP	22K	5%	1/16W	C1008	1-117-863-11	CERAMIC CHIP	0.47uF	10% 6.3V	
R312	1-218-989-11	RES-CHIP	1M	5%	1/16W	C1010	1-127-715-91	CERAMIC CHIP	0.22uF	10% 16V	
R313	1-218-969-11	RES-CHIP	22K	5%	1/16W	C1011	1-127-715-91	CERAMIC CHIP	0.22uF	10% 16V	
R314	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	C1012	1-127-715-91	CERAMIC CHIP	0.22uF	10% 16V	
R315	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	C1013	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
R316	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	C1014	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R401	1-218-989-11	RES-CHIP	1M	5%	1/16W	C1025	1-137-710-11	CERAMIC CHIP	10uF	20% 6.3V	
R402	1-218-985-11	RES-CHIP	470K	5%	1/16W	C1026	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
R403	1-218-985-11	RES-CHIP	470K	5%	1/16W	< CONNECTOR >					
R404	1-208-943-11	METAL CHIP	220K	0.5%	1/16W	CN1001	1-818-806-21	CONNECTOR, FFC/FPC (ZIF) 26P			
R405	1-208-927-11	METAL CHIP	47K	0.5%	1/16W	* CN1002	1-815-832-21	CONNECTOR, FFC/FPC (ZIF) 15P			
R406	1-218-941-81	RES-CHIP	100	5%	1/16W	< DIODE >					
R407	1-245-927-21	METAL CHIP	0.22	1%	1/5W	D1001	6-500-781-01	DIODE	SML-521MUW		
R408	1-218-973-11	RES-CHIP	47K	5%	1/16W	D1002	8-719-052-12	DIODE	1SS403 (TPH3)		
R409	1-218-945-11	RES-CHIP	220	5%	1/16W	< IC >					
R410	1-218-973-11	RES-CHIP	47K	5%	1/16W	IC1001	8-759-830-70	IC	SM8142BD-G-EL		
R411	1-218-989-11	RES-CHIP	1M	5%	1/16W	< COIL >					
R501	1-400-461-21	FERRITE, EMI (SMD) (1005)				L1001	1-400-776-11	INDUCTOR	220uH		
R502	1-400-461-21	FERRITE, EMI (SMD) (1005)				< RESISTOR >					
R503	1-400-461-21	FERRITE, EMI (SMD) (1005)				R1001	1-216-864-11	SHORT CHIP	0		
R504	1-400-461-21	FERRITE, EMI (SMD) (1005)				R1002	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R505	1-400-461-21	FERRITE, EMI (SMD) (1005)				R1004	1-216-845-11	METAL CHIP	100K	5% 1/10W	
< COMPOSITION CIRCUIT BLOCK >						R1005	1-414-760-21	FERRITE, EMI (SMD) (1608)			
RB301	1-233-787-11	RES, NETWORK	1.0K (1608)			R1006	1-216-864-11	SHORT CHIP	0		
< SWITCH >						R1007	1-216-864-11	SHORT CHIP	0		
S501	1-762-805-41	SWITCH, PUSH (1 KEY)				R1008	1-216-864-11	SHORT CHIP	0		
S502	1-572-922-11	SWITCH, SLIDE (HOLD ➡)									
< THERMISTOR >											
TH401	1-805-719-11	THERMISTOR, POSITIVE									

# D-NE920/NE920LS

Ver. 1.2

## SWITCH

Ref. No.	Part No.	Description	Remark		
R1009	1-216-864-11	SHORT CHIP	0		
R1010	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1011	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1012	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1013	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1014	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1016	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1102	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1103	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1104	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1105	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1108	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1109	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1112	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1113	1-216-813-11	METAL CHIP	220	5%	1/10W
R1114	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1115	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1118	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1119	1-216-864-11	SHORT CHIP	0		
< SWITCH >					
S1001	1-771-105-11	SWITCH, TACTILE (□ -)			
S1002	1-771-105-11	SWITCH, TACTILE (□ +)			
S1003	1-786-777-21	SWITCH, LEVER (SLIDE) (▶▶ / VOL + / VOL -)			
S1004	1-786-675-11	TACTILE SWITCH (◀◀)			
S1006	1-786-675-11	TACTILE SWITCH (▶▶)			
S1007	1-771-105-11	SWITCH, TACTILE (■ / CHG)			
S1009	1-771-105-11	SWITCH, TACTILE (DSPL/MENU)			
S1010	1-771-105-11	SWITCH, TACTILE (SEARCH)			
< VARISTOR >					
VDR1001	1-801-862-11	VARISTOR, CHIP	(1608)		
*****					
MISCELLANEOUS					
*****					
△ 102	X-3383-995-1	OPTICAL PICK-UP (DAX-25EV)			
M901	A-3608-777-A	MOTOR ASSY, TURN TABLE (SPINDLE)			
M902	A-1016-630-A	MOTOR ASSY, SLED (SLED) (CH)			
M902	A-3174-850-A	MOTOR ASSY, SLED (SLED) (EXCEPT CH)			
ACCESSORIES					
*****					
△	1-478-845-21	ADAPTOR, AC (AC-ES3010K2) (CH)			
△	1-478-846-21	ADAPTOR, AC (AC-ES3010K2) (US, CND)			
△	1-478-847-21	ADAPTOR, AC (AC-ES3010K2) (KR)			
△	1-478-848-21	ADAPTOR, AC (AC-ES3010K2) (AEP, EE, E18)			
△	1-478-849-21	ADAPTOR, AC (AC-ES3010K2) (UK, HK)			
△	1-478-850-21	ADAPTOR, AC (AC-ES3010K2) (AUS)			
△	1-478-853-22	ADAPTOR, AC (AC-ES3010K2) (JE, E33)			
△	1-569-007-22	ADAPTOR, CONVERSION 2P (JE, E33)			
	1-756-120-51	BATTERY, NICKEL HYDROGEN (US, CND)			

Ref. No.	Part No.	Description	Remark
	1-756-120-61	BATTERY, NICKEL HYDROGEN (EXCEPT US, CND)	
	1-816-149-32	PLUG, DC	
	2-187-958-01	COVER, BATTERY CASE	
	2-318-333-11	MANUAL, INSTRUCTION (ENGLISH) (EXCEPT KR)	
	2-318-333-21	MANUAL, INSTRUCTION (SPANISH, PORTUGUESE, FRENCH) (CND, AEP, E33)	
	2-318-333-31	MANUAL, INSTRUCTION (DUTCH, GERMAN, ITALISH) (AEP)	
	2-318-333-41	MANUAL, INSTRUCTION (SWEDISH, FINNISH) (AEP)	
	2-318-333-51	MANUAL, INSTRUCTION (HUNGARIAN, RUSSIAN, POLISH) (EE)	
	2-318-333-61	MANUAL, INSTRUCTION (CZECH, SLOVAK) (EE)	
	2-318-333-71	MANUAL, INSTRUCTION (KOREAN) (JE, KR)	
	2-318-333-81	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (HK, JE)	
	2-318-333-91	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (E18, JE, CH)	
	2-318-452-11	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (ENGLISH) (E18, HK, JE, CH, AUS)	
	2-318-452-21	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (SPANISH) (AEP)	
	2-318-452-31	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (PORTUGUESE) (AEP)	
	2-318-452-41	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (FRENCH) (AEP)	
	2-318-452-51	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (DUTCH, GERMAN, ITALISH) (AEP)	
	2-318-452-61	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (SWEDISH, FINNISH) (AEP)	
	2-318-452-71	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (HUNGARIAN, RUSSIAN, POLISH) (EE)	
	2-318-452-81	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (CZECH, SLOVAK) (EE)	
	2-318-454-11	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (KOREAN) (JE, KR)	
	2-318-454-21	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (TRADITIONAL CHINESE) (HK, JE)	
	2-318-454-31	MANUAL, INSTRUCTION (INSTALL OPERATION GUIDE) (SIMPLIFIED CHINESE) (E18, JE, CH)	
	2-590-334-11	MANUAL, INSTRUCTION (SS2.3 INSTALL OPERATION GUIDE) (ENGLISH)(US,AEP,UK,EE,CND,E33)	
	2-590-334-21	MANUAL, INSTRUCTION (SS2.3 INSTALL OPERATION GUIDE) (SPANISH)(AEP,E33)	
	2-590-334-31	MANUAL, INSTRUCTION (SS2.3 INSTALL OPERATION GUIDE) (PORTUGUESE)(AEP,E33)	
	2-590-334-41	MANUAL, INSTRUCTION (SS2.3 INSTALL OPERATION GUIDE) (FRENCH)(AEP,CND)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	2-590-334-51	MANUAL, INSTRUCTION (SS2.3 INSTALL OPERATION GUIDE) (DUTCH, GERMAN, ITALISH)(AEP)	
	2-590-334-61	MANUAL, INSTRUCTION (SS2.3 INSTALL OPERATION GUIDE) (SWEDISH, FINNISH)(AEP)	
	2-590-334-71	MANUAL, INSTRUCTION (SS2.3 INSTALL OPERATION GUIDE) (HUNGARIAN, RUSSIAN, POLISH)(EE)	
	2-590-334-81	MANUAL, INSTRUCTION (SS2.3 INSTALL OPERATION GUIDE) (CZECH, SLOVAK)(EE)	
	3-008-521-01	CASE, CHARGE	
	3-235-292-02	POUCH, CARRYING	
	8-912-735-90	HEADPHONE MDR-E0931SP/B SET (HK, E18, JE, KR, CH, AUS)	
	8-912-742-91	EARPHONES MDR-E0931SPB9 SET (US, CND, AEP, UK, EE, E33)	
	A-1071-445-A	RM-MC55ELK/SM (JE, KR, CH)	
	A-1071-446-A	RM-MC53EL/SM (EXCEPT JE,KR,CH)	
	A-1074-427-A	EBP-J101//M (EXTERNAL BATTERY CASE)	
	A-1077-866-A	BCA-DNE820/SM (CHARGING STAND)	
	X-2024-504-2	CD-ROM (APPLICATION) ASSY (SS2.1) (SonicStage) (CH)	
	X-2024-753-1	CD-ROM (APPLICATION) ASSY (SS2.1) (SonicStage) (E18, HK, JE, CH, AUS)	
	X-2050-857-1	CD-ROM (APPLICATION) ASSY (SS2.3) (SonicStage) (US, CND, AEP, UK, EE, E33)	

## REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

[illegible]